

FIGURE 1

1 aagcttcctt tgtagaggag aatgagtact tactgcttac aagacaagca gcatgttttt
 61 caaaagtcaa aagaaagctt gtgaggaaca aggtataact ctctagatag ctggccttgt
 121 cttatgcaca ttcattaatt cttttgtgc acagaaataa catgtccatg aacctggggg
 181 aacctctt ttgagagacc ttgatcttg agttcctctg actcaatatt aggagcaaga
 241 tagagtaaga cacctatatt tttatgtttg ccattacata agaatgaatg aaacaaaggc
 301 atagttctgc attgggttaaat aaaacaaaaa gcccgctaaa aggcaatgtt atatattcgg
 361 caatcacatt ttgaagacca actatattca agactcatgg caggttctgc atgccactga
 421 tgcattctgca tgacctttcc aaggctatgt gtcacagcag ccccgaaatc gtggcctcta
 481 agggcctaag tgtttctggag taaataggcc aggcacagcag ctctgagaaa taggggctca
 541 ccccatcctg agccaccttc ccagtctctg agcaacctca gcatcagtgg cctctgacc
 601 gcatcagcct gtgggtccct acttgctga acacatacaa tttctttct ttaattggc
 661 aagctttgaa aaacaagtac atgagtgaac acagagcaaa gagtttagtc tgggagctat
 721 ttctcgtaag tctcttttga gaaagagttt ctageccttc cccactttca tgagattaga
 781 gagataagaa caggaacatg gagggagggg tccacactct ggaaaacact tttgatctg
 841 ataaccaccc taatgaagcc ccaaagctat cgcctttgga tgggtttctc aaacatggaa
 901 ttctaccagg atttctgtca acaggcctcc taatccctc tcgctgcca agccacatgc
 961 tacacaaagg tgaagaacaa gaaaggcatt gagacacgtg ttctatccag ccaggggatg
 1021 cacaatgtct gccacgcag gctgcgttat tatcagcagg aactgacaga ggggtctgtt
 1081 ctccccctct caggcagtgg aggggacgct tcccacctct gacctgtggc tgagcccagc
 1141 ccgagcagaa atcccagaag aggtcccggc cttgctcgca tctgtctcc tgggtaaga
 1201 cctggctgga atgaaagata gtaaaagttc tttcacattg ggaaggcctt tacaaagctt
 1261 gcttttacta ttttataatc tctacatttt attgtccttt taaaatcaca aaagcaagca
 1321 gaaacatgag gaggtgctt ttttgctct cccattcaac aactgggctg ctgagttacc
 1381 agttccccct actacttgat ttggaaatgg acactagaaa tttttccac ttgtgactga
 1441 agctgcagaa acttcaacct gttttcagtt accctgttgt acctaataag agtccatcct
 1501 cttttcagtg gaaagaaagc catggacgag gcattgcagg tctagtgtgg ctctcagact
 1561 ctctgggagc agctgacgca catttaagaa caggaggtcc ctgaagggtg gctgaggaca
 1621 gatcacgaga ccagaggtga gaggcgccc acagggttg agccctactt ttgggtgtga
 1681 gcagtggggg ctgatgcacc acggtgaagg cattcagcag ccagggtcctg agtagcagaa
 1741 acacaggata cacagagggc aatgtcttag agccacacca actgggtagg actgaacaga
 1801 tgggtcattca acagatgata cacctttagg gtgtatcagc aatccattgg aaaacttggt
 1861 aaaaggcaga ttctagctca gccctagatt ctgatccagc aggcaggaat ctgcatgttt
 1921 ccagtttttc cagctgattc taatgtagat ggactctgga ttgccatttg agagacactg
 1981 atgtagaaca agatcggtta gactggagac attggccaag gtaatttcta gagaaaatgt
 2041 gcttgctcaa agtctgagg acaaatttaa gatcagagtc tagagaaatg aacatgaaca
 2101 tactcacagc ttaaaggcta gggtgggagg cccaaaggaa gcacatgttc aaggcacaag
 2161 cgagtcatta cagtgaacaa gcctcagaga agcttctgga agcccatgat ctggcagatg
 2221 gcacacacaa tagtatggca gatggtacat accaggtaaa cctaaatgc ataagggtcg
 2281 tattacacgt aggaaaacaa ggcataagcc taagcaaggg gcctggcccc tccaaatcta
 2341 caggtaatgg gcagagtcct ttagaagcat ggggtgcatta ggggaatttta ccttgctca
 2401 acagaaacta tggtaagcgt aggtgctgca aggaagccat acttcaattg ctctacatct
 2461 attattccag caaagatgat gctaggttct atgagaaatt ctaaagacga cacagctctg
 2521 ttgtcaaaga gcttacgata taatcataaa gcactttaga aaacttggtt atttaagtaa
 2581 gccaaatac tggataatat tgaagcagtt gactgcaatc tagagtacaa agtgggtcct
 2641 gtgcagccag gaaaaagctc acagagtagg cagagggtcg agactaagtg atttaaagcc
 2701 ctcataatc tttctgcatg gcccttttt ccagcaggcc tgaccatgtt ctatgcaatt
 2761 cacaccatct gaaaatacat cgcagcccc ctgttccct cacagcatta gttctcacct
 2821 tgaagcttct gggactcaca ttcagcttct tgccctgttc ctagtctcat cttctgatac
 2881 tccaccttcc ctgttaaggt tttgccatgc ccttgaacat gacattagat acaactccag
 2941 ttttgactct tactaccctc tctctcccca ttcacggcac aatgatgatt tgcaaactcc
 3001 ctccagccac cttggatata taatcacggt ccttgatcca accttgcccc tgacctttgc
 3061 atcctgtac cttggatagg caccttgatc ctccatgggc agcagctcca tgggaatttt
 3121 ccagtcaccag agaattcatg cattcatgaa gggaaagaac aaatgggatg agtatgaag
 3181 cagaaaggag agttggaaga taaggagcaa tagtcagaca ggagaacctt cattttgaga

FIGURE 1 (continued)

6481 attgtctttt cctcttcatg ccgagataaa agagtaccag tagaagaagt ttgagacaca
6541 ttctctagag acagaaaatg taaatggcat aagatgatca gtggctttac ccattgattc
6601 ttccaacgaa aggtcgggtg taatggacaa gaaaggaagg gatgagaaac aaaagacagt
6661 ggacaaacgg aattcaaaac cagttgtgta tttctagttc tggatttcag acactaaatg
6721 tagagcctct agttaagagt ggaacatctc tcacaatgcc tggagaccaaa atgaactaat
6781 tcagaagctt taactaatgt gaaagaaatg ccagataaaa aaatgaagag aagctattaa
6841 gaataagaga tgtggcaaga aatataaagt tggaaagggtg atcagtgaac cacatgaaga
6901 aataactaaa aatcaggcaa aaacaacact aatgaactca gatctctatg ttccaatgct
6961 agagcatgga caacaaaaaa caagattcca acattgaatg gaaaatctga tctcaaaagc
7021 ttcaccagtg gccagggtgtg gtggctcaca cctgtaatcc caacacttta ggaggccggg
7081 actggcagat ctggcctgag gtcagaagtt caagaccagc ctggccaaca tgctgaaacc
7141 ccatctctat taaaaatata aaaattagcc aggcattgat gtacacacct gtagtcccag
7201 ctactcagga ggctgaggca caagaattac ttgaacctga gtggtggagg ctgtagtgag
7261 ctgagatcat gccactgtac tccagcctgg ccaacagagt aagactctgt ctcaaaaaaa
7321 aaaaattacc agaacttctt ggaatggagc tcaacattga aatattgcaa acatgctgag
7381 aagggaagac aaagtagtta taggcctaaa taatgctctg tgttgctgat ggcattactc
7441 acacactgta ggcagagata taaaatggta catatttcat agagggtaat tgaaaatatg
7501 tagtgagtgt tctgatgtgc catcagactc ttccttcaga accaaggagc ccattctect
7561 agttgcaaga ggatagcctg ctgcattggt ttctgatagc tgcctcaca aatattacca
7621 caaatttcat ggcttatgtt ttaggcaaat gctaaaactg tcttaacaaa atgtattaac
7681 ttatagttct aggcacaga agtctgaaat gggctctgtg tggctaaaat caagacgtg
7741 gtagagctgc attcctttct ggagggtctt gggaagaatc tattttgttt gttctgttg
7801 gttttctggg tttgtttttt ttttttactt ttttttctt ttgtcttttc cagcctttag
7861 aggtgctctg ccttcctcgg ctcatggccc cattccatct tcaaagttga atctttctta
7921 cattacgtca ttgacaccct ctcccttctg ccttcctctt tataaggatc ctgttaatta
7981 tactggacct acctggataa tccagtataa tatctacatc ttcatttcat ctgcaacctt
8041 cattcttctt tgccatgtaa tctaacatat tcatagattt caggaattag gatatagaca
8101 tctttggggg ctgttattct acccgccatg tctgacagct gctcacagct gagtctctcc
8161 ccaggagtta tctttgggtg aaagcagctg cctcacacaa gggtatgctc cacaggaaaa
8221 actggcatcc aatgactggc tgatttgaag gcccaaagggt ccagccccc tcaatgcctc
8281 agtatggaac aatcctcact agccatccca gctccagggt gcccttgaat caactgaagc
8341 cactgctgca atgtattcca aaattcagct tttttctggg actagtcttg taattttagg
8401 tccctccaag ttgttgttct caagagctct ctccaatate ttcctgctaa caaatctctg
8461 tctcaaagtg tttcatggga aaaccaacct aaggcagtgg atgtcaggaa tggtcagagg
8521 aagctgactc taaaatagaa cttaggagat gggcacctcc tagccatta acaatgagga
8581 ccccatcact agtgaaaact gaagtttgta tggccctcac atgttatact ggagtgttaa
8641 aatattcctt ggtggtcagt gggatgggat ataagtggaa ggaaatgcac caaaggatgc
8701 aatatctttg acatttgagc cattctgggg aaactgggat tgcctgatgt gaatattatc
8761 tatgtgctgg gaaaaaagaa gggaaatctg ggaaagggga gctgatcaat tgtctattga
8821 aatcaaattg tgatagccag aggaacttct tggcagcact aaaaagtgac tctcatcttg
8881 tgtagtttga aagcagaaaa atctgagaat caggccaacg acttaattat aagtatagta
8941 caactcaaaa aaggtagaat tcttaatccc agcaaactctt gaaactccag atccctcag
9001 aaccatttgc tctgtagaa gtgatgcact cctcttcaag taaagacccc ttagttgaag
9061 acaacacagg gttctctgcc tgtaaaacag tatgtcttct cttgggattt ggctcacatc
9121 taccctcctg gccactagag agtcagattg caatagaagc tggccaggaa agtgctgagt
9181 cagctaggaa aataaagagc ccaaaccoca aagggttgtt aggtcccagc caaatgtgc
9241 cagcagaggt cagtaaaact taaatgggac taaagcctga gaagcctgga tcaaggggag
9301 tataatacaa atttgaataa gggagagatt gttgctgtga agctactctc ttacaataca
9361 gggttcaact ctggtaggca cccaggcaga tgggtgggtta tgttctgcta gcatagctct
9421 tggaaactac catattctac cataatatat tataaaagaa gaaacaaaaa gactcaaagg
9481 ggtgggcata aaatgtagag ataaaatggg agctggaaaa cctaccagca gatgatgttc
9541 taagacatat cagaaagaca ttgtgctcac cagagcgatg agagaggtaa tgggagcaca
9601 gcagcaacag cgtcaagaaa ctcagtgttg cctgtcctct gtaggccaag ctgattataa
9661 aaattgaaaa gtgggcccagg catggtggct cgtgcctgta atcccagcac tttgggagcc

FIGURE 1 (continued)

12961 acaacatgga tgaaccggga gggcattatg ctaactgaaa taagccagaa aaatgaggac
 13021 aaatactgta ttatctcaca tatggaatct aaaaaagtca cactcaccaa aacagaaaagt
 13081 tgaatcatgg tttccagggg ctggagggtta ggggaaataa gagtatgttg gtcaaaggat
 13141 acaaaactttc taatataaga tgaataagct ctgaggatct aatgtacagc atggtggcta
 13201 tatttaatga tactgtattg tgtatttgta atttgctgag aatagatcct gtgttctcac
 13261 cacaaaaaca aaaatggtaa ctatctgagg ttagggatat gttaaccaac ataattgtga
 13321 taatcattcc ttcacaatat atacttatat caaataatca tgttgatat tttaaagtga
 13381 tacaatttta tttgtcaatt atacatcaac acaagtggga gggaaaaaac gagaaaattg
 13441 catgagctaa tgaccaagt cctcatgtca ttcaccactg ttgcaccagc tatggctata
 13501 tgggcaccac ttatgttcag ctgatagagg aagggaagag ccaagctttg ttcaaaacag
 13561 ttggggccagt ttgatgtagg aatacaaaac agaaaaggtc tttagtattc tcagtccac
 13621 tcatgaataa ccctaaaaga cagcagttag gggacatcct ccaatggag ttcaagtgat
 13681 gcaectggcc actcactttg tgtggaaagt ggctcaaggt caaatatc taaactcatg
 13741 ggcatttgta aatgggttgg ctggttgctt agtggcctgg aaggagaaag agtgaaagat
 13801 aaggaataag gaggtctggg gaagaggaat acggaagtgg acatgaagtg caaagagctt
 13861 catgaagatc tttgtatacc atgttaacgc ctaccatgga agaggcaatt tctagtcaaa
 13921 tggacagact gatttggcca ggtgatgtca gacagccctt tctcattaat caccacagtg
 13981 ctggcaagca ggcataatga cagagtaatc atggtggcag gcacggaggc tgtgcaaggc
 14041 agcttataaa ataggtgatc tagtttctgc tgctgctgaa tatctatcag gaacagagat
 14101 tactgccgag cccctgacaa agaacaattc ttcagagagt ccaatcggcc atgtgggtggc
 14161 acagcaatta cattaaacct cttctccat ggaagggcc gcaattcacc ttgaaggaaa
 14221 tcaacacata cttaggatac aggtttgcca ttcctgcca tagatcctca gccggcacca
 14281 ttatctaagg acttacttca tgtacgattc actaacacag gagccacag aacatcctgt
 14341 tgtaccaga aactcacttt agaagaaaag aggtacaacg atgagcacag gaccagctgc
 14401 tgactttata aggtaaaagga acaccctttt gaaagtattg ctgaagtacc acattcaata
 14461 taataactaa ggctggagtc ctttaagcatc ccgcatcctc caggatgcag tgtccaccct
 14521 taataataag tgactattat acagtactgt gtctcctcta tatagattac atggttcagg
 14581 gtggaaatag ggctaattcc tctaccatc tcaactcaata acctaccag ggaattcacc
 14641 ccttccatct ccacgactct gagctctgca gctctagaga gtctggttcc aagaacagaa
 14701 acacttatac caggaacact acacgaatcc cattaaact taagctacag ctggttggcac
 14761 tttatgtttc ttgtgccaag aggtcaacag gcaaaaaaag gcatcaccat tttggcagtg
 14821 gtaattgatc aggagaaggt tgagctattg ttacacatgg tgacagaaaa gactatttgg
 14881 ctcccagaag gacttcttgg gcatctcttg gtaataacct agccaatcgt aatggttaat
 14941 ggataaaagt agtagtcag gcttgagaag ggcattgatga ctacaggctc agatccttca
 15001 tggatgaagg tttgggtcac ccaaccaggt aagccacctg gagcagagct ttcagccaag
 15061 ggggaagagaa ctctacactg ggttgtaaag aagggtattg atgagtgtca gttgtgtccc
 15121 tgagaacagc tgcattgttg agagctacag tttgtcccat taatcttctt cttgtacatt
 15181 tccctaggaa aagaagcaaa ccagagttct agaggagctc tcccagata ggggtgatttt
 15241 tttaaataag aaatatgttg tccaagagtt gaaaggggta actgaaacaa tcaactttgat
 15301 gcaccacaag cttccccgct tcagttctga gggcttattc cccagtggc cagatatgtt
 15361 atctgctgac agctagctgt tgagctcttc ttttggaaat gctcttggcc aaaggagat
 15421 gcctcaccca aggtcatgac ctctccctgg agacaacctg catccaatga gaagtcaatg
 15481 caagagcaca aaagctcggc ccccttgctt cagcttggga caactcacag gagagctcca
 15541 aactccagcg ctctcagga tcagctgagg ccattgttgc aatacatcat agttcatctt
 15601 cttcctttgc ccagtccttt tctcaccct ctcaaggcg ttgagggcac tcttttaaaa
 15661 aattcccaca cagagactct ctgtctctga gtctatttca ttggaacatg atccaaaaca
 15721 taatatatat caaaatcctt gaaaacattc atccatttta acccagtact ctccatcta
 15781 agatagtcta aggtaatgag agattaaatc atagttttga gtttgcgtgt gtaacattat
 15841 aattttttta aaactataaa gaatctaaat gttcaaaaag aaagaaatag ctaacataat
 15901 ggtatagaat tctttacagc cattacagtt catatttttg agaaatatag tgacatagga
 15961 aaatgttcac aatataattt taagtgaata cagcaggata tagaactata aaattataaa
 16021 tggtttgcaa acatattact taaagaacta tcacctttaa gagaaatgca atgacccag
 16081 tggtaaatat atttaaaaaa atctaaggag atagtcaaat tttgtttaat tgagtataat
 16141 ttgatctcat agccagacct atttttaggt aaaataaaga tagtaaatc tctagcactg

FIGURE 1 (continued)

16201	gatattttgaa	gaacagcaca	aatgacactt	ggcttgctgt	agagtagaat	taagcatgaa
16261	tttaaaatgt	ttaagggtacc	atcttgccct	ccggaattcc	attctgcagt	gagtgtctta
16321	gagatgtgtg	gttttggtcg	gcttgccctc	gctttccctt	ggctggccctg	gcttttggtt
16381	atctgtctta	gttaacaact	taactcttga	agacatctga	cttctttggc	taacttttgac
16441	aattaggcaa	gaagaaatct	gtttgatcat	ctccacctca	aaacctact	accttttagac
16501	ctttatcaca	agcatagagg	aaaagaattc	aaagaaaaga	aactcatgtg	agatgttact
16561	accaagtatc	tctaggcaat	aggaaggagt	aaccagacc	caccattaag	ggaaggggag
16621	tgctttttaga	aaataagatt	gtatattgag	acaaactaat	tgtgatgttg	ttatgtcaca
16681	tgtttaaata	atcccagggtg	cacattctct	cactttctac	agaacacaac	cacaccaaag
16741	caggtcaaag	aatctgactc	ctttccacca	ccaagcctct	taacattttc	tagacctgaa
16801	tacaaacca	acactctcat	tttcccaatt	tcttactccc	actcaagata	tttcaaacac
16861	gtgaaattga	ttatttgaag	gtttaaggga	gtgaaattta	agattaaaga	cattccttcc
16921	ccaaccactg	ctccgcactc	acatggcaac	ttggcctatg	ctatagacag	gggagatgac
16981	atttgaagctc	catgcagaga	tgagccctgt	ctttgagttc	tttgtggcct	ttccttcagt
17041	gaagagtgtc	agtccctgtc	tgccctgtcc	ctgccccttc	taaccacaga	tgctctagcc
17101	tggccatgga	tgtggagttc	ctcagagcaa	atagagtcca	tgattttgtg	ttctcagggg
17161	tcatcaaggt	gtgctgatag	ctttatcttc	ccttttccact	tcatttttct	ctaataatgtg
17221	attaaaatgc	agggctatcc	cagaaggagt	tgactagaga	actaaaaaac	aaacaaacaa
17281	aacaaaggga	ccccaaaatg	acttcatggt	taaaagaaaa	acataacagt	gaaaaaataa
17341	aggcattata	atgaactctt	ctccatactc	tctagagccc	tggggaaatc	tctttgatgt
17401	agaatcactg	aatgaagaaa	agcccatgtg	aaaccagaac	acttgggttt	atccaacaga
17461	tattttttaa	gcacttgcta	tgtatcaggc	actgtgctag	atactgaaga	tacatagacc
17521	tggacactgc	cctcatggaa	attatactct	agcaactcag	atttatcagt	cccacaacac
17581	tgggtagacc	gcacaacaat	atcaggcaca	gtagtgccgt	gagcttatcc	atcccgta
17641	tgttcccagg	agtgtcaaga	aagggaata	gcagccagaa	acatccatg	aaaagattac
17701	ctggaacgac	tcaagaaaat	ctgcccaggt	gcactctgtt	acctctctc	ctctgccaag
17761	caggagaaca	atattgaatt	ggagaacaca	tatgttaata	actccaaaga	gaggctagta
17821	tctcagcttg	agcaccagct	ccttggtatg	tactatagtt	ctgggcaaaa	ctgcaaagca
17881	gccaaagtgt	gtcttgcaac	catcccaact	ttagccctatt	atcaatctcc	cagacatcac
17941	atgcacatag	cctaccctaa	atctgcccc	aatccttcaa	tcagccctaga	catgcctcta
18001	gactagtgtc	tggttttaa	tgtaaataag	gtttaacctt	accagggtatg	cctcaacatc
18061	ccctggcaga	ccttccaccc	agacaggaag	aggtggcata	atggagcaag	catgggtttg
18121	gggcccagaa	gacctggttt	tctaccccag	tttcacaact	tactattttg	tgaccacaag
18181	caagttactt	aacctcgatt	aagcctcaat	gttcttggcc	acaaaatgca	gataataatg
18241	tctgcccaca	tatatctcgg	gaagattaaa	tacaaacaag	ttcttcattt	cttatcctat
18301	ccttccctcat	ctcataagg	gaaccaataa	agctcagcaa	aaacacaaaa	aagacattga
18361	ttttatattat	ttataggcat	tggcagaaac	cccatcatga	acagggaac	ccttttggaat
18421	tctgctgcaa	ttgattgcct	tggctgggag	atgtgaggtt	cctggagcaa	tgtgaagaaa
18481	tccaggggat	cgctgggca	ggacccaggc	ctctaggcaa	aatgtgtgga	acaagccatc
18541	ggttttataa	tcctcctaag	aaagatcatg	aaaagcaaag	tgcattctta	attattttcaa
18601	agagctctgg	attctatata	atctgtcctg	gaaataatga	agagaagaaa	gacaaaactt
18661	ggctttatatt	acagagggtga	cgttacagg	attcaccatc	tattattacc	tggcaatacc
18721	ttagggctgg	cctccaccac	tgttttttat	gaagagttaa	gtacacgtga	agtctgttgt
18781	tcaaggccct	gacccacatc	caacctggac	tcccaccact	ctctctcagg	cattctgggc
18841	taagctgtaa	ctcagccgtg	tcttccctac	actagcgaca	gtcttctgct	tcactcctgc
18901	cttctctcca	cctaccaagc	cctcctttca	tgtcttccca	tcaaccttct	ccatatagcc
18961	aagcccttgc	tcaaatggac	cctctccatc	agggagaggt	aacagaagct	agaacccagg
19021	ctcagggtcc	atagaccagg	ccccagggcc	tactggggcc	agtcagtatg	gtgggtctcga
19081	taccacagac	ctgggactca	gtccataatg	tggctatcaa	ccagggtgcc	cttagaatta
19141	actcaggagc	ttttagaaac	atataaatgc	tcatatcccc	accccaaac	ttctaaatca
19201	atattccata	ggggataaga	aagggtatctg	ggtatctgaa	ttttttaaag	actccaccct
19261	ggattctaat	gcacggcctc	agctgaaaac	catggctcac	agataggaac	tctctataa
19321	aaaggaaact	agatactatg	ccatgaattc	atagactcta	caaataagagc	tgatggaaaa
19381	taatacaaaa	aacagtaatt	ggacaacctg	aacatttaca	aatcaaagg	gccagggtgat

FIGURE 1 (continued)

19441	aagtagtttg	gggtgttcaa	agatctgagt	aagaaaccag	tgaaaagttt	cattatttct
19501	cacaacttac	tgggaagcag	atgggtggag	gggagtggaa	actgaaaatg	tctggacatt
19561	tgtttctgaa	ctaaccagca	cctgtaaatc	tgtaattagc	aaagtaagga	tagttgtggc
19621	taaaaatata	gtttgtaaat	gtatcaagga	cagtggaaatg	tctcaagcaa	taagcaaaac
19681	ggctttctta	aggacaaaaa	aatccaaaac	aacatgatat	cttgttttgg	aaagggtaac
19741	catatgagaa	gacaaaagaa	acacagcagc	tgctgtgttt	ggggcttgag	ttgcagcatt
19801	tcatacaaca	gctcatgaaa	ttttaattgc	tgacatttaa	aggttcaa	tggcagggag
19861	agcaagtcac	atgggttgaa	cactaacaaa	agattacgaa	ggaaaggtga	ggctctgtgg
19921	cacatctcca	gcaagaagag	gtgcttagca	gggtgccctg	gggtcagtg	ttgctcactc
19981	cagattggat	tctgcattct	aattaacaat	gtggaagaga	gaacaaaaga	ccctgaaag
20041	ataccagaag	aagacttgca	aagggggatg	agggcaaccc	ccagagagaa	gagcaaaatg
20101	agacaggtga	gcccacaagg	cttaatctat	aggaaaaaac	agcagacagc	tgagactact
20161	tacaaaaagg	caaactagct	cattggagga	aaattcacta	gaacccctta	tatttttagaa
20221	acaaaaggac	acagaccaca	aaaatgtctc	aactatcaac	atgggtaaga	gtgtccagca
20281	ccctggagag	gaggtcaggc	tgtacaggag	gcagccaacc	caccttcaga	tcaggatcag
20341	cagaggcatt	gccaagacaa	agtacattca	gaataactaat	taatatctat	caatggtttc
20401	tctctagaaa	aaaaaatgaa	atgccacagg	gaatgtctat	taaccaaata	atccacttga
20461	agatcttttt	gcccactgc	tgtcataatt	tggtttctct	ttctaatttc	aggttaagtt
20521	cacactactg	tcataatttg	atcagcatgt	gcaaacagcc	aaaaccagaa	acacatccat
20581	acctctacag	cagcctaata	taagaagaaa	aaggagaggt	tgggttgggtg	gtcaaagggg
20641	gaaaggaatt	ttcattccct	gtatctgccc	ctgggcta	aacagccacc	atgagctgag
20701	tgcttggtaa	gagtcaagcc	ctgtatgagg	cacatcattc	gtattgtctca	ctttaactgc
20761	aatggcagag	ttgtgaggca	gttatttagac	ttatgacttg	gagaaactga	gcaacttcca
20821	tacacatcta	gcaaatagca	ttgtctggat	ttgaacttgt	gtccctcgga	cttctcaatc
20881	tatgctcttt	ccctgcattg	ttcagtcagc	ccctgttctc	tttaagaggg	ttttctcccc
20941	agttccccca	gctccccact	gccctctatt	ctgctctgt	gcctgagagg	ccttgagagc
21001	cttgagagca	tcactggaca	gccctggcat	acagaccctt	tcactggggc	ccggccaata
21061	agcaagcttt	tctttttacac	agaaatgttt	gtggcagtct	ccaccaatct	cactgtccca
21121	ctagctccct	gtggagtcag	gaagggcaaa	gatccccctc	ttctgggtgt	gatcctactc
21181	cttggaatag	cttcacgtag	aattctatgg	attccaactg	ctgggtgagtc	aatctctgcc
21241	ccccctggat	taagaatcag	gtagaaggaa	ttgaaaagga	gctctgcagc	cagcaagcat
21301	ttaaaaggcc	atagagaaaa	atgcaggacc	gcttgagaag	ggcagatagc	agagcagcta
21361	ggagtgcctc	tgctggagct	agagtgtgag	ggtgtaaatc	ctggccccag	catgttctat
21421	gtgcacttgg	gcaacctgcc	caacctcgct	cagcctttct	tttcatatca	gcaaaatagg
21481	ttgtagttag	caacagggtg	aagcacttag	taatgtctca	tggatgctag	agaaacaaaa
21541	acggagcaga	ggcaaagatt	ccagaagcct	caggatgaac	tttcggcatc	cctagatgga
21601	gaactttcat	atacttagtc	tcccttggtc	acttctccag	ggactagtc	ttgcttctct
21661	tgtcttgtgt	agactaatat	acctctgaag	ttgttcttgc	aaccatttcc	cctaagtaga
21721	tgagggataa	caaacaagca	aaatatgtac	tgaagttggg	tggctgcaag	caatggactt
21781	ctttgagtgg	agaaaaaag	ggaaggagat	gtggggtggg	gaagaaggag	aaattatcat
21841	aaaattggat	tccaaagcat	tcagtatgaa	cattcccagc	aatagcagat	gctttttgcc
21901	tgcttttagat	aagacgtcta	tgatttagac	ctctgcgcaa	actgagaagc	tgttggatgt
21961	tgaaacatta	aatctaaaca	ccgaatgctc	gaacccaagc	agaagaacaa	gcccacacaa
22021	gcctgcaggc	cccgtacccc	atcacatctc	accatgaatc	aaaaacgcac	tacttaggcc
22081	agctgccact	gcagctgctg	ccaaagcaca	aggtgggtgg	gacctgagca	gtgttctacc
22141	atcaaggaaa	gaactggatg	agggctcctg	ttactcggtg	ggtgggttcc	acgtggaagg
22201	gtttcctgcc	acacacaggg	tccagcatga	gaaatggcaa	aggcggggaa	caattcaggg
22261	gtgccccagg	gagagaatac	agtcacaggt	tcttagttgc	tgtttctggt	taggccagta
22321	aagccccctc	ctcatccctc	ttttccattt	atcactagag	acagaaacta	aaagccatgg
22381	cttcaggctg	ctaaaagcct	aaaacaaaat	aaaaagaaca	acaaaataag	gcggttggga
22441	cgtgcccaact	aaatgattgt	atatactatt	ttactatagc	tactgcccc	aaaggcacct
22501	ttggatgcc	tctttggatt	tctcacgatt	tttcaatatg	tagaacatag	tagattctca
22561	cacaatatct	gcagaatgaa	aaaataaaag	tgtgcatgca	aaggggtggc	tgggtcactg
22621	tagtccaccc	cagagaagac	gggaaaatgc	attttgctaa	ggcacacagt	gatgagaggc

FIGURE 1 (continued)

22681 atccccacatg gtagaaagag aaccagactc ggcattccagc ctctaaatga gtatgtacca
 22741 gaatttccca aggtcttctg taaaaacgca gatcctgggc aggcgtgggtg gctcatgcct
 22801 gtaattccag cacttcggga ggcctaggcg ggtggatcac ctgagggtcaa gagtttgaga
 22861 ctacgtctggc caacatgggtg aaacctgtgc tctactaaaa atataaaatc ggccaggcat
 22921 ggtgacgtgt gcctataatc ccagccacta gggagggtga ggcaggggaa tcacttgaac
 22981 cctggaggcg gagcttgcag tgagccgaga tggtagcact ggactccagc ctgggtaaca
 23041 agagtgaat tccatctcaa aaaaaaaaaa aaaacacaaa tccaaagtct tccctctcca
 23101 ggaactgaaa ttctggagtg gggcccagga atttgcttcc ctaacaagct cctgggatga
 23161 ttttgatcca ggtggcctgt ggttcatatt ttaaggaaca accattccaa gtctcactta
 23221 atggtagcct taccttgagc ttcaaagatg accagcatgc tggccacatt tcccccaag
 23281 ggggtctctt tagcctctta aatgctaagt gataccagca gcctctaaga cctatgtgcc
 23341 atgttatgtt ctggaggaga tgacaggcaa acccactcat caacaaagggt cttatttgta
 23401 agagaagtgc ctggtggggc cagtggtaag aaagcagggg tagcattatc tgaaccatag
 23461 tccatgcccc actaaaattt ctgtcacagg aagtaagagc cttctgcgta aaagcatgtg
 23521 tcccttggag agaacattcc tggaaaacat agagggtttt attgcttagt tttagaaagg
 23581 ggacagggtc aatcccccca ttactatgaa atatgggtaa attgagagcg tagtatgtcg
 23641 caaagcatca taaaaataat ttacattgt tactggcttg actttaatgg tgggttttta
 23701 ggaggaaaaa aataataaga gaaatttttc tgagtgtctc gacaggagag agaactctct
 23761 tcagagttaa gagacatctg tcgcaaagct gactgatccc aagaggggtg aattcttggg
 23821 agcccaagtc caagacgcac aaaactctga gttcaggaaa cagcccctct ctggagaagg
 23881 agcctacca ggtgtgtgag agtgaagaaa ccaaacacaa gactaaggag gaactattaa
 23941 tagcaagctt agctcccaac cttaaagcaa tgaagtgaat tgcaatctgc accctgtatc
 24001 taggccaagg aaccaggaag acaatgtctg gccctcaccg gtgctggatg cagtctgtca
 24061 gcctcaggct cagccctctg cagcaacctg atgccctgcc ttcttccaaa ccaagactgt
 24121 cttctatttt gttctactag tgtttattga gtgctactg tatactcttg gaagtgtgaa
 24181 gaaatgatcc tacctgccta gcagtgtgta tacctgtcat tccagaccag ttccagctct
 24241 catctgagat cataagacac ccataaagtc cctgcagaa tgttaaagaa caataaatga
 24301 tgagaaattc acattacaag atctagaagc acaagatacg cataaatgag ttgtatccca
 24361 aaactttctt tttaaattca tagtttaaaag gtcagaacct attttccaaa gggacagtgc
 24421 tgtaaatagt caggtgtgta gtctaaacct aacaaattca tagtatagct aaaattatc
 24481 acatgtgcca taaaaacaag gaaaacattt ctgctacatt attataatta catttaaaat
 24541 aactcaaaaa tatttttgag cagttatcct tagtgatgac atccttggga aataatgttt
 24601 aattagaatt taatgaaaga gagatttctg tagaaagtat gaggaactg gactcataag
 24661 gacttttagat tcttatctca cattctttta aaatttttcc tctttgtaaa aatactacat
 24721 ggttttgtgg aaattttggc aaatacatta aaatttttaa tacagatata aaaaaataaa
 24781 tttaatatga aaccaaaaat taaaagctaa tatgtatttc tgtccaagat tttttaattc
 24841 taaatacata tgcattgtatt ttttacttga aaaacaagtc acaaatattt ttgtaattca
 24901 ctttttcacc tttctattat caaattatct attttatcat agtcttctca acatcgtgta
 24961 ttagctttct tcttaatcct tgccaaattg ctcaattaaa aattatatct cattttaatt
 25021 ttattttatt cgatcactgt tgaaattggg ttttactctt ctccaattta atggccactt
 25081 gtattttatc tatatgtaat tataattaat tatcttttgc attttttacc tacttttctg
 25141 ctggactgct tatagttttc ttgagctgaa aagattgtga atatataata atacctcctt
 25201 ggttatttac atattgtaaa tttttcatg gtttgtcatt taatttttat ctggttcatg
 25261 gtgttaacat acagaaattt taagctttat acagtcaaat ctatccagtt tttccctttt
 25321 agtttctccc tatgttttta aatattgaaa ctattttccc gggatgacca agttcatttg
 25381 cgcttatatg atgaaaaggc caaatctata tagatagaaa tacatcgaca ggccttgctt
 25441 ctacccctac tgtctgcacc tcatttgcct ccatcacctg tagggaacca attttatttg
 25501 tgtctcactg atccttctag cacatctttt tgcaaaactt aaaacaatta tctaattgat
 25561 ctttctggaa taggtacatg gtattgcatt ttgaaaaggc tgttttttcc attaaatttt
 25621 gtaattgttt acagttgata tcaaagaaaa ctgttgattt ctgaaccttt attttgctta
 25681 cattcatctt gttgatctag taatttttta gttgattgtc tcgggttttt agatggacaa
 25741 ttatatcatt tttatgatc atattgataa ttttgtcttc tacctccaaa tagtatgttg
 25801 ttattatagt tcttatttta ttccatctaa ataagccatg attttacttt gtgatggctt
 25861 tataattagc actatttatg gtttttaatc ataattgtta tctatctttt ctagtcttta

FIGURE 1 (continued)

25921 aagggcatgg ccgtgccaca tctggagttg ctgttatcat ttatgttaga taggatgggc
 25981 taaactgtgt tgcttttagt aaaacaagcc taaaatctca agagcttggg acagcgaaaa
 26041 cttatttatt acttaagcta caagttgatc atgggtcatg gtcaggtcag gtcattctaga
 26101 tccaggccca ttccaccaga gcttatataa ccaaaggctg tcatttcggc cgggtgtggt
 26161 ggctcacgcc tgtaatccca ccactctggg aggccaaaggc gggttgatca tgaggtcagg
 26221 agatcgagac catcctggct aacacagtga aaccccgctc ctactaaaaa tacaaaaaaa
 26281 aattagtcgg gcgtggtagc gggcacctgt agtcccagct acttgggagg ctgaggcagg
 26341 agaattggcg gaacctggga ggcggagctt gcagtgaagg gagatcaagc cactgcactc
 26401 cagcctgggc gacagaggga gactccttct aaagaaaaaa aaaaaagaag aagaaagaaa
 26461 aaggctgtca tttactgtga ctgaagctag aggaaggaaa gctggaaaaat tttgcactgt
 26521 cttttacagg tttctgtcca gaagtgaac acatcatctc caatcacatt ttactggcca
 26581 aatcaagtca cttagccatg ttccaaaagg gcatagaaat tcattectac catttgccca
 26641 aaagaacagc ttggaaatat ggggtggacag agctaataag ttaccatata actctaaagc
 26701 acacacattt gtatacacac cacaatgca cagaagagat tccttacta ttggcgatag
 26761 gttttcaata tgctctagat ttttggagga gacagagtga tctaaactag ttgcacagat
 26821 taactagatg attgttaaat gaactctaata ccaataatac tcacctttta taaagattag
 26881 agtcaactca aagataaaaa ttttttaaaa gcatgagtta agagctttta cttaattctt
 26941 ctcttccctt tggaaagcat aaattaacta aagtttacta tgattactag tggctgaatt
 27001 ccatatttaa atttataatc atgtacagca tagctaataa ttttaattata agtgtaaaca
 27061 attcccaaga cgccaatagt tcattgtcaa atcttacctg cttcacaaaa tttgggtaat
 27121 ctatggtcta gaaaagacac tgctttttat aacattgaat aataacaaaa tggccatata
 27181 ttcaataaat actaagtaat tactaaataa ttcagcctgg taaaccattt ttaattgtgt
 27241 caaaagccaa aggtatcatt caatctttcc tcatttgaga tgtattgcat ttcttatatg
 27301 tgatgggttaa ttttaggtat aaacctgact ggattaatgg atactcaggt gcttggtaaa
 27361 ataataatttc tgagtatgtc tgtgaggggtg tttctgagag attagcattt gaatcagagg
 27421 actgagttag gaagattgcc ctaccaaga agggtaggca tcatccaatc catcaagggc
 27481 caaagtagaa taaaaaggca gagaaagggc gaatttgccc tctgggatct gggacatcca
 27541 ccttctcctg cccgcagaca tcagaactcc aggttctggg gctttaggac tcagggattt
 27601 acaccagtgc ccccccccc ccagattctc aagccgttaa cctcggactg agaattatac
 27661 catcatctcc cccagttttc aggccttttag actcagactg aattatacct ttagcttccc
 27721 tggttctcca gcttccacct ggaatatcat gagacttccc agcctccaga ataacatgag
 27781 tcaaagctca tgtacccegc tcttagagag aaagagaaat tctattgggt ctgcttctct
 27841 ggagaacctt gtctaataca atatacaagg caactcttta ctgtgaggaa aatggagtca
 27901 ttcaatcttc accatcccaa acagaacagg ctcttccacc acagcctcta tcaggccctt
 27961 gtcggcagggc ctggggcatg aaatcacata aagtggactc tggatggaga aggcattcag
 28021 gaaccagtgc accggtctgc agtgtgcaat aacctcactc atgtgcccct atacctccat
 28081 tttctacctc tctctaataa gaacatgagg gattgctttt aatacacaga ttagcatttg
 28141 ggccattcat ataaacatac aacaatcctg tcaacagtat tatagttggg gtccctatagt
 28201 tgtgcctcct ctaacctgtg aattagcaat agatcatcct atccagagge ttggtctgtg
 28261 tgcttcttct aaaggtatca aaataaagaa gttgtttctt ctttctctg ctcataatc
 28321 aatatacaac acaaagcttc attcatgcat agtttgagct aggtcatage atgaccatgt
 28381 cctagaactt actttctgcc ttccgatata catagtaaat agccaaaata tgtactcaat
 28441 acatccattt ttaaaactag tcaatttaag ataagaaata tcacaaatgg gtttttggca
 28501 ttataagata aaaagatcaa ttgattgaaa gtctcgttcc ttaagattga atttaattgg
 28561 tttgattgac atcatttatc cacagtccat aaaccaaagt tatccatcat cattgatgaa
 28621 cggcatttga aaactatcat caaattagtt gcttagaaat gccaaagatgc caccttagac
 28681 aaggaaggcc tctggcaaaa tatattcatg tgctgcctaa tgacttttgt ccaccatgga
 28741 ctgcatatat gacagtagac tcataagatt ataatactgt attttattgt atctcctcta
 28801 agattagata tgttttagcta cacaaatact taccattgtg ttacaatttc ctacaatatt
 28861 cagtacagta acatgctgta cttgtttgta gctcaggaac aataggctat accatatagc
 28921 ctaggcatgt aatagcctat accatccagg tgtgtgtaag ttcactctat gatgttcaca
 28981 caaagatgaa atcgccaaag gaaggacaca actctcagaa cgtatctgga ctgtaggaga
 29041 acaacaatct gattatcaga tcttcaaaac gtgggcagcc ttacaagatt cagagtttaa
 29101 ctgataagca tgtaatttgc aatttcctaa ccttgaatt tgtcaagata atgttataat

FIGURE 1 (continued)

29161 agtcccttat agaactaata gactcttcca ataagtagat gctgctttgt gaattcagtc
 29221 ctatcgtgag acttctgaat tgggatcttg gaatctcatt agcctcagaa tcctaaattt
 29281 ataataaaga tgcataagagg catagttagt agcatttgga agatgctctt aattctcagt
 29341 tctccagttt gtcttaattct ttttatataa actcctctaa tcttcaacct ggcttctgcc
 29401 tgtgcaaaag tcaatatatg agttagttac tactccccag tgaaagacga taacatttta
 29461 ggagtgtatc tttatgtata ttttagcattt gtcaccccta aacttcagtt atagaaaattc
 29521 tcgcatgaat ccccaaaaata tgtcagtgaa ctaacagttc gtaaacatac aatcatggca
 29581 tttaatatcg tattagctac acagaaaaat aagggtatttt atagcacatg ctcaagagat
 29641 ttcactattg acattaaaat ctccaatgga aatactcctt ggaattgagg atatattgca
 29701 gtagtggtta aaaatattaa tatttggtga gaactcacca tagccctggc attctgctaa
 29761 atattggata tccttttctc atttaaacct cactgctatc cttaggaagta gaaactatta
 29821 ttacccttat tttaccagaa gcaaattgaa tcaagagagt aactgtttta cccaaaatca
 29881 tcatgaggaa tgttgccaaa caatggcctc actgcctaag gtacacagaa gtcagtacta
 29941 tgggaccagc ttttgagaaa agaaagggtc ttattgcaag tcaactgcca aggagacagg
 30001 agccaacact caaatctgtc ttcttgaaca aggttttgag agcaggtttt ccaggcaaac
 30061 agcaacaatg caagggacag gaaaatgaaa caaggcatga tctgattgga tcatgcaag
 30121 aagtcacgcc aggtcttttg ttaagtccat acggcagcaa aacagggcac cccttgcttc
 30181 ttaatttggt ccttgctcct tgatccaagc acttgggttc cacacatcat tgactttttt
 30241 attccagctg gctccagggt cctgaatcag gtacccttag ttcatttggg catgctcagg
 30301 taatgtgacc agcaacctgg gggctccttg cactgaaaaa ctcatcattt tgttactgac
 30361 aacgttgaat tggttctgcc attacagaat gacaaattaa caggaaactgc agtgatctac
 30421 atgagggtgt ggtatcttgg gctaggtcat aacaatggaa atagaaatga gtggatctgg
 30481 ggtcactttg caggcaacag cagctgctga tagactgagt gttagcagggtg gagaagcagc
 30541 agcaatcggg gtggctgcta ggattctgct tgagtagttg cctgatggc atttatgtat
 30601 atgagagaga agtaggttga tgcgtgttcc caagaggaga ataaaacaca ttgtagtcat
 30661 gatctacaaa ttaaaccatac aattatacac acagacacat gtatctatac atatttaaaa
 30721 catgatccta gagaaggatg ttttttctct tgctgttttt catactgtcc tatcatggga
 30781 gaccacaat taggactctg aagacagctg tttgcttggg gttttgctaa tgcttcgggtg
 30841 tatcaaagta aggcacacac tcttgaggag aaactctggc tggaacatc cttaaatgcc
 30901 accctacccc tcatggttta tataagcctt agctacagca ttgtctagaa atggctattc
 30961 tttgtctttt ctttggaaca catttctcac ttcaaatgca actacccttt gccagcccag
 31021 gattttccca atactgaacg ggtgcccatc ttcaaggaca attccaaatg tgtgcccttg
 31081 cctttggaac aatgaagagg gtttctgctc ttgtttttct tgtcttatct gcaccagaa
 31141 atttctggct tgtgccattt taattttata tacttttact ttatttcatt tgaattttag
 31201 aaaataatga gtatttaaga gaataagtgt ttgaatttaa acaactagga gtaggattac
 31261 tgcattgtag gcctgggatt gccatttgaa gtcattaacc agcctgagac caacctttcc
 31321 agcatgcctg cagggatgtc ttcccggtt ctgatacatc gcacattgtg tgactcccaa
 31381 gcaagctctt ggccactcaa agaaaaacca ctgaatcaaa ggagatggca tatgagtcat
 31441 ttcattcaatt acttatttca catagattta aaactatgtc ttgctgagct caacttgact
 31501 gcatgtttga atagtgaag acattgtgtg aaaaagaaaa ggggcaaatc taatcacagg
 31561 cacaataacc cttctagaac cacatttttag ataagagtgt cccgcagagg ccgggtgcgg
 31621 tggcttacgc ctgtaatccc agcattttgg gaggccaaagg cagccggatc acgaggtcag
 31681 gagatcgaga ccattcctggc taacatggtg aaaccccgct tctactaaaa aatacaaaaa
 31741 attagcaggg tgtggtggcg ggcgcctgta gtcccagcta ctaggagggc taaggcaggga
 31801 gaatggagtg aaccaggag gttgcagtga gctgagatcg cgcactgca ctccagcctg
 31861 ggtgacagag tgagactcgg tctcaaaaaa taaataaata aataaataag agtgtcccg
 31921 agaacaacag ttcttgggga tattaacagg tattctctct tttttttgca aattttattt
 31981 ctttttaaaaa attattgtag gcacatagta ggtgtatata tttatggagt acatgagatg
 32041 ttttgaaaca ggcattgcaat gtaaaaaaag cataccatgg caactgggtt atccgtcccc
 32101 tcaagcgttt atccgttgag tgcaaaacat tcagttacac tccatacatt attttaaaat
 32161 gtacagttaa gttattgact atattcaccg gttgtcttat tcattctttc tttttgtgt
 32221 acccattaac catttccacc cattcccagc ccccaactta acagcgtact ccaaaagggg
 32281 aaaaatgatc tgtggtcacg tgagtaatgc taggttaagt aaatttgaac aggtttcttt
 32341 actatagact tctctagatc tttttgttgt tgatgctttt ttgttttggg ttgttttggg

FIGURE 1 (continued)

32401 ttgtttgaga tggagtcttg ctctgttacc caggctggag tgcagtgggtg caatctcage
32461 tcaactgcaac ctccacctcc caggttcaag tgattctcct gcctcagect ctcaagtagt
32521 agttgagatt acaggtccgc accatcatgc ctggctaatt tttgtatttt tagtagagat
32581 ggggtttcac catgttggtc aagctgttct caaactcctc aggtgatcca cctgcctcag
32641 cctcccaaag tgctaggatt acaggcatga gctaccgctc ccggccgact tctccagatc
32701 tttaatgtga tgctaataag ttctgtatct ccaagaaagg agagaggga ctttaactgtt
32761 tcccaaactt atttaatcac agaaagctat ttttgagaat gttttgtggc acatattttg
32821 agaattctca tcccaaagga aaaaaaaca taaataaggg cttaattgaa aggacaacct
32881 catttaaaag ttgacataga ggccattatt tgggtcacag aaaactaagg cctgagattt
32941 gtcattggagt tcatgtcccc atttgggtcac taagatagag acttgtcatt gtaatggctg
33001 ctccagcactg gtgaacaccc gccatgaact gacccaaacc agtgtggcca cacatgaggc
33061 gaggcattgcc cgttatcaca ctaccaaata cggaaaccaa gtcttaaacc aattttttgc
33121 tccatataca gacatttact ttacaattgc ttattaacaa tccatacaac acgtttgggt
33181 agctcaaaaga agtcccatct tctgtccttt taggggtctc cagcaccacc ttgactgaaa
33241 cattttctca aggcagacat ggcaacatgc ccgaggcagg attctggaag gttcctaggc
33301 catgccgggc aacttggaa tctccaacta agtgggtgga cactgggcca gtttagcgtc
33361 aagctctcagg cactatccct aagaaaaagg ctgcagtctt tgctggagcc ttataccctc
33421 ttcattaaaa acaggaaggg ctctaattatt tttagccaatc gaggtagcag tattagtgtg
33481 tgaggggacca caggctggta acaatagaaa tttattttcc cagagtgtcg gaggtggaa
33541 tgctaagatc cagggtgttg caggctgtgt ttctcctgag gtctctcccc ttgttttgca
33601 gatggtcac ttctcactga gtctcactat ggccctttct ctgtacatgc acatccctgg
33661 tgtccctgag tgtccaaatc cctcatctt ataaggactt cagtcagatt ggattagggc
33721 cacaataatg gctcattttt aatgtaatca cctcttcaaa aatcctatct ttaaataatg
33781 tccactcttg aggtactggc gcttagggct taaacatatg aattggtagc agggacacaa
33841 ttcagcccat accagtatcc taaatattgt tttttttatt ataattgatat cccatatcta
33901 atgttcattt tgctaattaa tgtcactagt ttccacagtg aaaactcctt tcggatattc
33961 actatgctaa ttagcaaagt ctcatacact tctctctctt ttaataataa tttcaacttt
34021 tcttttagat gtggggggtc acgtgcagggt ttgttacctg ggtatattgt gtgacgctga
34081 ggtttgaggt atgaatgaat ccactcactga gatagggagc atagtaccca ataggtcgtt
34141 tttcagtcct ttaactccct cctctctctt ccccgctagt agtaccaggt gcctattgtt
34201 gccatctcta tgtccatgtg taccaaatat ttagccccc cttataagtg agaatatgtg
34261 gtatatgggt ttctgttctt gcattaattc actcagaata tcagcctcca gctgcattca
34321 tgttgctgca aaggacatga ttttgttctt tttcatggtt gcatagtatt ctatggtata
34381 tgtgtaccac attttcttta tccaatccac cattgatggg cactagattt ggttccatgt
34441 ctttgcattt gtctcactca ctctcttaca tcaactagct cataatcagt cagggtgcaag
34501 ggcattctgat tgactgagcc taatagcaag ggaggctgggt gaagtatgtt tttggctttt
34561 atcctgggag gaaaggactc atataattgg gctctttttt gcagtatctg tatttctttg
34621 catatttcag catagacaat gtgatatcat ctgtatgcca gcttcaatgc taagggcagc
34681 caattacctt aatagagaat gtacactgga ggggttgctta cgtagcaaca ctcaggagac
34741 ttcaacaaat gctccgttta tacctataaa ctgagttagt tctcatagg atcagcgttg
34801 gatgggggtt ggccaaatgt cattatttca actggttctc tgtcttttgg agattctgtg
34861 ttacctcaca gataattctt gtaataaate ccttttctgc ttaaactagc cagaattcat
34921 ctttgcagcc aagacacctg atacagttac caatccttag attttcagaa agcatatgca
34981 agatatgtta tggatatgtg atctctctc tcataaaacc agggaaatcac aggttgacca
35041 gctgacctgc ctaattttaga catctctata cctatagcag ggagaattag agagtcatat
35101 catgttggaa ctagaaggga ctgtagcaat catctaacac agatgaagaa atagtcctag
35161 agagaaaaga ttgtccagg ccacatccat ttttatccct acccccaaaa ggatgtttta
35221 aaataacccc tgaacaatc ctccagctgg agagaacaat tttccatttc tgtttaaacc
35281 catatcccaa ggtggcggag acaacatcag gaaagagctg cacagccagg tcttcattaa
35341 agacacgctg gagcccagggt gggcttgcag agtgacctat ccccgagct cggcagtgag
35401 tcaactacagg gtcagttcag catgtttttc tctgtttcag actacagttc agctaggctt
35461 taggtcggca tcttttttag ttgctagggg ggccctctctg gtaggggtat ggagaggaaa
35521 acaagatctc ccagcctaac cagaccaggc tagacaggag agaggcgtg ctgtttgggt
35581 gtgggtgtca tccagggttaa ttcacttttc tgtgtttgcc acccagtcac atctatgggt

32401
32461
32521
32581
32641
32701
32761
32821
32881
32941
33001
33061
33121
33181
33241
33301
33361
33421
33481
33541
33601
33661
33721
33781
33841
33901
33961
34021
34081
34141
34201
34261
34321
34381
34441
34501
34561
34621
34681
34741
34801
34861
34921
34981
35041
35101
35161
35221
35281
35341
35401
35461
35521
35581

FIGURE 1 (continued)

35641 gtaggtttgt tgttgttatt gttgttttcc tttgagtttt ttttgtgtgt taaaacctaa
35701 actgtttcaa gaaaatgcat gctgtttctca tccctcaacc aagcatgttt tctcaattag
35761 acgcattttc acagagaatt agtcttaaaa cccctgtgag cttaaaaaata gattaagaac
35821 tatttcttaa gctccctttc tttggaattt aaagtgtttt tgagtggagt ttttttgggg
35881 ggtggaggag aggaagttaa gcgtaattaa gtagatcaag aaaaaaaga aaatcattta
35941 actatttctt atatgatcct caggctttga ggttcactca tgtaaaaaa gctcatcatg
36001 gatattaatt cattcattcc tatactcctt cattcacaac agactgtgta tctatcaggt
36061 tcaaggcact gtgctaaaag aaatatacag gaagaagccc ggagcattta aaagcaggat
36121 gttgacaaac acacacattg aagatactat gatttgagct tctgacatct ggactaatta
36181 aagctgagga aattggcatc tatttggcaa aatggccaac aaagaagaca ccaggcagaa
36241 caaccacag aaaatttcat cagccaggaa attagaattc actctcccca tccaaagaga
36301 aagttaatta ctggcttttg tggattgcat tcttggtctt gcactattat cttaacacag
36361 aaggcaagag aaggcaagaa ggggctgaaa gagccatcct tccaaaatat acttgggaga
36421 attaaaacac cgatgttctt ctctggggcc cttgtgactg gtcagatcct cttgccaga
36481 tcataagagg gcttagtgga aacaaaaatg gtggttgta atgtgaacac tattaatagg
36541 tctttcttct gtatccaaag gtctaagcct ttctgaatgg agtctttcaa gactcagctc
36601 agacactacc ttttcaagga aaccttttgt gacctctctg cctcaaccc cacacacaca
36661 accatgccag ctagaccata gatcttctt agcatttcca cacatctgca ttacctctca
36721 tggcccagcc tcattatcag catccctcat gaggtgtgtg gacacttggg gtgtctctgg
36781 cacattgtaa acccttcata aatgatttct gaaggactgt aatacatagt ttatacaatt
36841 ttcagcatal gaatttaagg gaaagcataa aagaaaaata cccatggtgt acatttaaat
36901 aataataata cataaaggaa atttcacata tttaaacaga caaagactga cttatactag
36961 aagagaaata atgacctatc ccacagggtat tatgtaacac catacgtttt ccaaactgct
37021 aaaagagagg tagtttgctt aaagttaact cccaactcta ctcacttaaa ggtggagggt
37081 ccatttattc ttaacagtga ggagcatttc agaatagaat gttctcacac acacacacac
37141 tgaaggcaca taatttgagc tactgaaacc ttgaactcgt taaagcttag ttgttggaa
37201 gcatactcct aactttgcaa gattattaca cttagagaac atctgagatt gcagttaaat
37261 aaaacttagg tttgtctgaa aaattaatta gtgtacataa ttattctgcc acataaagca
37321 aggtatcaga tgtaagcaat tcatgtatgt tattttaata attagcacca ctaagttatg
37381 ttccttttcc acctctggct taatttattc tctaatatgt gtacaagtgt ctggtctact
37441 gtgttcccca caccattaat gccaacacac cacacgtaag cacaggcagc aaaagattaa
37501 aatcctgcgc accctgtttc gcctgcctct tcacactcct gcctctacta tggccccggg
37561 tgggtgctccc cagtaactcc aagctctctg cctcctcatt ctctctcttt tccctactt
37621 ccaggggagg attcacatcg gatgggactg aaacgtatac aatttagggt ttcttatttt
37681 caaaaaataa tattaataa ttaattctac tgggtgcggt ggctcacgcc tgtaatccca
37741 gcactttggg aggcgaggc aggcggatca taaggctcga agttctagat gacctgacc
37801 aacatggtga aacctgtct ctactaaaaa taaaaaaaat tagccaagta tgggtggaca
37861 cacctgtaat cccagctact caggcaggag aattccttga acccgggagg cggaggttat
37921 agtgagctga gattgcacca ctgcactcca gcctgggaga caaagcgaga ctccatctca
37981 aaaaaaattg ttttaaaatt aggtagaaat aaatatttat ttaaaaagag aagtttcatc
38041 aaactaaaac acaaagtaac aaatatcaca aaatctaagg gaaaaaaatc tcaaaaataa
38101 tgtattagat agttctttgt gtagcactgg tccacggact gccttctgac tatgccatgt
38161 atatttcaaa ccttgtctct cctgtatgac ccacatgcat ccaggggaag ccactgtagg
38221 ttgacatgac catcatgata agacctctag cactacatct tcaggtcagg acagcaggtg
38281 ggcatagga agatgaatgg aagccattcc aacacaagga gggctagccg ttacctcaca
38341 cagtgaactgc aaaccacaca gatatatctt cacaacctgt cccctgagcc agatccaaaa
38401 attgcctgta gtcactctaa ctctctaaca gagaagtgtg actgaggcaa gttaaaatgg
38461 aaaagtcaga ggatgtaagc agttgtagct aacatgtctt acttgtgcaa atgttgccaa
38521 acatgaccac atgaacgcac cactagggcc tctctagggc ctgggaagga acccaggcat
38581 gtgagggacc ctgacaccta agcctctaca gcttcttggg aatccccact ctgccttctt
38641 cccacacatc ttcccatgga ttccagtccc caagcttctg ggtccagcaa ggcaatgagg
38701 ctcaaggcac tgagcgccat gccttagggc aggatggaca aactggcaaa ggaaacagga
38761 agagtaaata acacagatgc cctctgcctt caagtcttgg gacaaagagg gatggaggga
38821 gggattagag ttctgagcaa agacaggact ttgaactcaa gcaagtggac actagctcat

35641
35701
35761
35821
35881
35941
36001
36061
36121
36181
36241
36301
36361
36421
36481
36541
36601
36661
36721
36781
36841
36901
36961
37021
37081
37141
37201
37261
37321
37381
37441
37501
37561
37621
37681
37741
37801
37861
37921
37981
38041
38101
38161
38221
38281
38341
38401
38461
38521
38581
38641
38701
38761
38821

FIGURE 1 (continued)

38881 tgaataacca tgagctaagt gcttcacacg gattactgct ttcacctca ctaccaccct
38941 aaggaaaagg agagagggaa ggagaagaga aagaaaaaga ggaaggagaa aggtaagaga
39001 aaggatgatg atgaaaagga ggaggaagaa ggagaacatg gagaagaaga atgtaaaaaa
39061 gaagaaggaa gacagaaaaga agaggggtag gaggagggga ataagaaggg ggaggaagag
39121 acacagagga agaagagaaa gaagagaaaag agatcaagtg aaagagaaaa agggaagggg
39181 agggaaaaga gcaaagaaga aaacgtaagc tgatagagag agataaaaaga aaaaagagaa
39241 agtttactcg tgaactcctc ttccttagga agcagcagtg tttatctttg ctgtcataat
39301 aaaattaaaa gctttttttc agactataca ctcacctct taaattagaa agagtacaa
39361 tttcttttgg ctcagtctg caaatgcaa gttgtcatga tctcacctct taaaaaagg
39421 aaaaagggaa aaaagcaacc tcccaagaga tggctatcac ttcaagcga tggccagcgg
39481 gccagccatt tgggtgctgt ccatgttttc cagtggcatg tgagcctttc acccagacca
39541 caatcccatg ccaagctcca tgtcatgttc aatcttcaaa atcttttgta caattccaac
39601 actttccagc aagagttagt tttctttatg tttgcttgte ttttaactga ctgacactca
39661 taaattttctt ccaaggaaaa aagaatatga gaaaacttga aaatatcacc taatctgtac
39721 tgcacatgtt aagactgttc agaaaagtgt aaaaattata attcgcaaat ggggtggcttg
39781 aagtaccagt tgaacctcag aaaaattaaa ttcttttagga ggaatgcctt taattagaat
39841 cagaagtaga ctctgtcatg gaagtccctg aaactccatt atttcacaga tttgcagact
39901 catagacttt cttattttatt gtcagaaact tctggaagtc tctcaatgaa tctccaagtt
39961 actgggtgag accacaccta gcccaggatt ccagatgaac tgcctagtcc atattattgg
40021 tgaagacacc caggaaatat ttcacaacct atctcagtaa cattccaatg tgttacaatc
40081 ctgcctttta ggaaatcctt cattattttc aaagatactg ctactgctct acatcctttg
40141 tgaaaataac aagatcaaaa cttttataat ctcaaaaaaa aaaaaaaaaa aaaaaacagg
40201 aaaagaatta aggaacattc tctcttcttt tttttttttt tttttttttt tggaaatgga
40261 gtcccatcct gttagccggg ccagagtga atggcgtgag ctcagctctc tgcagcctcc
40321 gccttccggg ttcaagcgat tctcatactc agcctcatga gttagctggga ttacaggcac
40381 ccgccaccat gcctggctag tttttgtatt tttagcagag acagggtttc accatgttgg
40441 ccagcctagt ctcaaaactc tgacttcaag tgatccacct gccttggcct tccaaagtgc
40501 tgggattaca ggtgtgagcc actgcgcca gccacattc tcttctcttg caaactaaca
40561 tgtctatacc tttttcagtc ctttaatgac ctgtgtggac cctgtacata acaactgtct
40621 ctgtgggccc ctccgtttgt ggtcgaacaa ttaaacacct cactctggtt ggtgccagcc
40681 agatgagttg atgaaacctg agaggccaga ttgcttcag ttctgtaaaa cctgtttgag
40741 aattaaaaga gatgtccat catgtcctag gctgagtaaa tatgaaggaa cagtgtattt
40801 ctatggcaac tgacaatccc aacagtaagc caacacagca ccaccccccag gagcaacagc
40861 aagtgtttga gtgggttcaa aagagagttg gggaaactagg gggattgggg ctgcacgtga
40921 cgaggagaaa ggggtgtggga taacatgggt tggccttggg tgataggcta tgtccagtct
40981 ctgctgcctc tgtctctcct tctctcctc tactcactc ttgagcccc cacctttctc
41041 tgtctccta tctgaaacac ataccctgct ctttaattggg aaactagtaa acatttctgc
41101 tgattttaat cctgaaacat cattgagacc atatgaaatg agtcttaagg atcagaacca
41161 tatgaaggga aggactgtgg gctggcagcc ggcgcacctg tgctgtcttc tggacttcca
41221 ccaccaacag tctccaggac ctgtttcaag ttgcttcacc tctttgaacc gacttcatct
41281 attactgag tgggtgaact agatggctct ttctggctta aaaattctgt gatttcattt
41341 ctggaggaat ttcaagcatg ggtagagaga gaagaaactg agaggcaaga ggtatggttt
41401 ggactcatca aattaaatca cagggtgactt tccagtcctc ccaccacccc gatctgtaag
41461 gctgcctttg ggtgcgtggc cttcctgcaa aatggcaaac acttgaaaaa gcttccacgc
41521 tgaaacccaa accagaccat atttaggatg ccccataagg tggcattttt taetaagatg
41581 ataaaggata aacattgggtg gagccagaga ggctgctccc aaatacagtc ctccccatca
41641 gcaacactgc agtagcctgc acctatcgtc cagagtatga aaaagacttt tgccaaagac
41701 ggcttttggg gatttatcat tattacatgt taagagcctg ttctccatgt cctcacctc
41761 ctaccttgct aatcttcccc atttccatct ttcggcccag tgtgagacct caccatctcc
41821 ttttcccatc ttctttctc catacccttg gtttccctagc aggtcaatgc ccctgcccct
41881 tcaactggaat ccatccatcc tgggtattct tttctttatg aacctgctgg actacatctc
41941 aaagttaccc aaaagagggg tacaaaagaca caataaaatc ggaaataacg ctcaccctta
42001 ccagcctgca gttaagagtg tgtggaacta ggggtggctgc aggcacagag atagggggaa
42061 gggctgcctc atgccatggg caggacagta aatgggtgcaa attttctgga aagcatctta

FIGURE 1 (continued)

42121 gtaatatagg tgaagagcct ttacaatgtg tttatcctat gacctatcct taattctctt
 42181 attctaaagg aataagaaga ggtttaatca aagcatgagt gaaaaggcca tccaaacaca
 42241 gggaaagggg ccgttatgat gtctacggtt ctaagaaata gaaaacaaca acttggttta
 42301 aataataagc acataaccaa agaaatctag aagtaggatt cctttaagag ttgagagatt
 42361 tagcagctca aaaatgtgac ctgacatacg agttctttct atgcttttgt tcttctcct
 42421 ccaacactgg tttcacacta aacttggtc cccagtggcc aatagcacca aacagcactt
 42481 atcggcattc ttgttgggtat ccaaaagaga tggagaaagc ctgatttcac atggctcttc
 42541 cttaaaagca acaaaggact tttcccgga gccttcagca aacctcgtca gatttgaatc
 42601 acatgccaat tcttaaataca gtactggga gggagtggtg aaaaagggga ggaggtgttt
 42661 acccttaacc aatatgcta cccctgccc ctgagatcaa tccataaaa gtattgcttc
 42721 agttctttga agaggagtac aatgtttgtg agtcactcac cacatttacc caccaagagc
 42781 taagggataa ctgagtaaaa tggtagagct ggtaggaaaa tggtagtag tcccgtcctt
 42841 ctgtgccata attgacttgt acacaaagag atttggaat ttaaacataa gaactctctc
 42901 ttcgaagcc cagggctttg ggcacttcaa gtctggtcct tgctgggca cagtggctca
 42961 cgctgtaat ctcagcaatt tgggaagcca aggaggggtg atcacctgag gtgatgagtt
 43021 tgagaccagc ctggccaaca tggcgaaacc ccaactctac taaaaaatac aaaaattagt
 43081 tggatgtagt ggcacacgcc tggaaatcca gctactcagg aggtgaggc aggaaaatcg
 43141 cttgaatctg ggaggcaaaa gttgcagtga gctgagattg taccactgca ctccagcctg
 43201 ggagacagag caagactcca tcccacccc caccaaaaaa aaattctggt ctttacatgt
 43261 gaaaaaataa aagctaattt ttaaaaaacta aataataaag agtggttaggt gataagtttt
 43321 atgatagaga taatgtgtgc tttaaaacac acagcataaa acagatggaa aacacctcat
 43381 ggagaaggga gagcttgaat tgggtgttga ttgaaggaca agaaaaatct gttggtaact
 43441 tctcctggc tctgacctct gatgcagtta aagtaaagca acttagaatt atgatctagg
 43501 gaacatattc agagagaaat gaatttatga tgtcttcaat ttgaagatgc tatgatttta
 43561 gactattcta gaatacaatg atttttcatt gcttcacact tgtaagaaat gttccactac
 43621 tgaaaatttg caacacttaa aaaattccta caaaaatca cagccacct tgctgttcta
 43681 tgctaaataa acaaaatatt tttctcaat tatgttgctc tcttaatta cagcaattt
 43741 taaaactagc tgtaactgac agccctttcc tcacacttac tgccaatgta tttaggtcaa
 43801 tcccacctcc aattagagaa acttagaaaa aggaaatcct acggtgaaat gccatagcc
 43861 ttacaatttt cagtaactaa tctcaagga tgacaacttg gcaaaaaaga gaactggacc
 43921 agtccctga aaggtccatc acttcggccc atgttaattg attgccttaa aatcacagtg
 43981 cttccaggtt gtagagacac actcaaatg gactattgcc ctacattaa aggggatagg
 44041 ttttcttttc ctttttcca tccctgcttc tctcaaagct gcacagaggt atatgaggtt
 44101 tggggaatat ttgcagcaca tgttggtgtg caagaatgtg ggtgaattcc tgttaagggg
 44161 cgcagacact cctcttcta tgacctttcc tttccacca gaacaactga agtatcatga
 44221 taagaggaag ggctttgtgt ttgagataag cagctcctat acctgtcagc tttctcta
 44281 aagaaagctc tttcctgcca ccgtataggt caccttctta ttggtaaagc atgatgaagt
 44341 ttggaaactg ttgtccttgt tttgttgaaa gaagccaagt tccaagaaat ctgcagaggc
 44401 attcctacaa tccctcagcc atggcagcat gaatcctgaa ggggcagtga gtgctggtt
 44461 ctactctgtc tgcacagcta agcctagggg agataatctt ttcatacaag atgcattctg
 44521 cttttgtggg cctcttgag ccctcaagcc cccatctgat ttgtacacaa tgatccagtg
 44581 ggccagagga gccagagcc atgagcggcc catccctcca agaactattt ctgactgtcc
 44641 agtatcatgg agcaagtgga aagaagaaaa aaaaaacca attacttttc gaagagcaag
 44701 atgaatgctg tagaaggaga aggaagggga gggagatgga tgggtgccga ttccagaatc
 44761 ttcagatctg cttggatgaa tcattaccta tgatttgagg gacaagaatc tgattttatt
 44821 catcaaccag tagaaacttt tctttctgcc tcccaacatc tgaaatccaa caaacatgtg
 44881 ccttaggaac ataccggtca tcttttagag gcattttata tacatattga gtaactagaa
 44941 aacactcttt ccgtaataca cacacacaca cacacacaca cacaccatct gtcatataa
 45001 cactcccacg caagaaaagc gaaactgctg tttgatgaat gtaaacactt ggctgtttgc
 45061 agcagtcggg agtcctgcca ggtttaagt ctaagatggg aggtgaacc caggggtttc
 45121 cccctgcccg tgetgagatc cttatttggt caagcttcta cctatgcctt ggctcggag
 45181 cgagcccgat agcgtggat cacagcagag ggagcagggc ggctgacgtc ccatccgaa
 45241 gagatgaatg gaattccagg aagctagagt catgctggct tgggacagt gcttggagac
 45301 cagacttcaa tgacagaagc actaggcagc ggcactcatg gcaatgtgtg caccacaga

FIGURE 1 (continued)

45361 aatgtaaccc acacctcggg ttcaggagcc gaaaaatgaa aagaacgttt agggaggaaa
 45421 aagggaaata caataatagg cagagagtaa tttattactc tatgggtctg ctctgtaa
 45481 agctgaagac tctggagcca gatggttctg caaattctcc aaacaggagt cacgttaaga
 45541 agcacgagtg ggcacaaaaa ctgtttttca agacacaatt tcaatttggc ttgtggaaac
 45601 tggatacgag taagtttctt taaaattcga gtagaaagca gctgtcctcc ccgggcccct
 45661 tgatgagaat acgcacaccg cccccaagcg gccggccgag ggagcgccgc ggcagcggga
 45721 gaggcgtctc tgtgggcccc ctggcagccg cggcaggaaa gggcccgaag gcagcgaagg
 45781 cgaacgcggc gcaccaacct gccggccccg ccgacgccgc gctcacctcc ctccggggcg
 45841 ggcgtggggc cagctcagga caggcgtcgc ggggacgcgt gtccctaccc cacggggacg
 45901 gtggaggaga gtcagcgagg gcccgagggg caggtacttt aacgaatggc tctcttggtg
 45961 tccccctgcgc cccgtcggcc catttttctt ttacaaaac gggcccagtc tctagtatcc
 46021 acctctcgcc atcaaccagg catcccgga gatcagctcg cccgaaagcc cctgcgccac
 46081 ccccggggccc ctccctaggtg gtctccccag ccccgctcct tttcgggatg cttgctgac
 46141 acccgagacc cgcgtggcgc aagagtacga gcgcgagcc cgtgcgcgcc aaggtgcgt
 46201 gggcggggcac cgacttttct gagaagtctt agtgctccca agccccgacc ccgcccct
 46261 tcaactttcta gctggaaagt tgcgcgccag gcagcggggg gcggagagag gacccagac
 46321 tggccccccac ctcccgcttc ctgcccggcc gcccccatt ggccggagga atccccagga
 46381 atgcgagcgc ccttttaaaa gcgcgcggct cctccgcctt gccagccgct gcgcccagc
 46441 tggcctgcga gtccagggt cctgtcgtc tccaggagca acctctactc cggacgcaca
 46501 ggcattcccc gcgcccctcc agccctcgcc gccctcgcca ccgctcccg ccgcccgcct
 46561 ccggtacaca caggttaagt gcccccggcg gccgcgaggg accaaagctg cccgggacat
 46621 ccacctggag cgctgaggt tcagtcctc tgggtggacc cggaaacctac actctccccg
 46681 ctgcctacc ccagcccgt cctctcagcc gctggaggac tcttcagggc aaggtccag
 46741 agccatctc tccagccttg aggttcacaa accaactcat caggacaccc caagatttcc
 46801 ttactctctg aagtctcct taagccttg tatcagcact ccagggaaga gtctgtactt
 46861 cccctgcctt cccctgaacc ccaaactaca gtctctgac ttgtctacct tcgacttccc
 46921 aaaagcccc aaattgttgg tcttgccccc cccacacttt aaaaccagca tctcttctct
 46981 ccacctctct ctctctctct ctctctctct ctcatgctct ctggaaagta atcctgttgt
 47041 ccttcatttc agcaaacgcg gggtaaaaga gggatgggtc cggccctgtc cccatgcccc
 47101 gccccgtttc tgcgcaccgt cctccctgc ctatgctatc tctgacctc ggctcttgtg
 47161 cttctctgta caggatccct gctgggcacc aacagctcca ccatggggct ggcctgggga
 47221 ctaggcgctc tgttctctgat gcatgtgtgt ggcaccaacc gcattccagg tgagtttgtg
 47281 tggcaccttt aggggaagga gggacaagga agaggtgctg gctatcccag gtgtgcccc
 47341 tcacgtgctg tctctcctt cttgagcctg actggacatc aggcgcgacg ttcactctga
 47401 tcttggtatt tattcacctc tttcagtggt tgccaggagt tttacccca accctttgtc
 47461 tccaccccta aggactcagc cccctactgc tgggtcccag ctagaaagct cacttttgtg
 47521 tctctcctgt ctaacagagt ctggcgagga caacagcgtg tttgacatct ttgaactcac
 47581 cggggccgcgc cgcaaggggt ctggcgcccg actggtgaag ggccccgacc cttccagccc
 47641 agctttccgc atcgaggatg ccaacctgat cccccctgtg cctgatgaca agttccaaga
 47701 cctggtggat gctgtgcggg cagaaaaggg tttcctcctt ctggcatccc tgaggcagat
 47761 gaagaagacc cggggcacgc tgctggccct ggagcggaaa gaccactctg gccaggtctt
 47821 cagcgtgggtg tccaatggga aggcgggcac cctggacctc agcctgaccg tccaaggaaa
 47881 gcagcacgtg gtgtctgtgg aagaagctct cctggcaacc ggccagtggg agagcatcac
 47941 cctgttttgt caggaagaca gggcccagct gtacatcgac tgtgaaaaga tggagaatgc
 48001 tgagttggac gtcccatcc aaagcgtctt caccagagac ctggccagca tcgccagact
 48061 ccgcctcgca aagggggggc tcaatgacaa tttccagggt aggccttctt tctgagccct
 48121 gctccgtggg atcatctgct agacagggtga cctgccagga gggctacagg aaatcctgtc
 48181 tgtaaactaa cgcagcagtt ctcagatttt aggcagcatg agcatcacct ggagggttg
 48241 tgaaagctca ccctgctgca cccagcccc agagtctggg attctgtaaa actgcaactc
 48301 taacaagtac caggtgatgc tgatgccggg ggtctgggaa gcacactttg aaaactactc
 48361 aaggaaacaa gaaatggttt tcttttagca gtcagcctgt tcaagcctta gatactcctt
 48421 aggtctctta gaaaagagct tatttcaaat gcattccccc aatttttaac ttgtttgaaa
 48481 tggatacttt ctatgggcag aatcagtagc actttgctat tggattcctc atggggatgc
 48541 agctgggtct acataaaaagg ttaaaatagc agttagtgtg tgctgttaca gcttcatctg

FIGURE 1 (continued)

48601 tgccttaact tctagatctt tgcaacggtg gctttgaact cccacattta actctttgac
 48661 actggaaaagt gtcattatat cctctagget taggatcaga ttccatttcc tgtgtacca
 48721 agtaggctga taactgaatt ctttgtaaaa tactcaagac ttggcagaag tcacaattaa
 48781 gattttgaag ttgtttggcg attaatgttg ctgtgttatt ttgacatagt gatcttaaga
 48841 cagctctttg aagcttttag aacatctatt gtatgctttt cctagcatac agacagtctc
 48901 ccccaacccc atccccaccc cgtctgcat tctacaagta atgtgtgtcc tctgcccaca
 48961 ggggggtgctg cagaatgtga ggtttgtctt tggaaccaca ccagaagaca tccctaggaa
 49021 caaaggctgc tccagctgtg agtacccttc ttttttagg gcacataggg aatcaggggg
 49081 aattccacca aaaacaaact gaggaattta gcaatagtgg ttatacataa attaccccca
 49141 gtgagatcat caagaggcat acagaagtga ctccaagggg tattatacac acacacgtat
 49201 acacacgtgc gcatacacgc aacccctcta cctgcatcct tcacaccaa tgaaacgtct
 49261 tctaccacta agaactcaag aggctggttg gtaagagtat ctatttgaag ttttcatttt
 49321 gtttcttgcc agctaccagt gtctcctca ccttgacaa caacgtggtg aatggttcca
 49381 gccctgccat ccgcaactaac tacattggcc acaagacaaa ggacttgcaa gccatctgcy
 49441 gcattctctg tgatgagctg tccagcatgg tcttggaaact caggggctg cgcaccattg
 49501 tgaccacgct gcaggacagc atccgcaaag tggtcagtgg cctctgcacc cagcccgta
 49561 gcataaaccc tggaagggtt atcgcagatg gtcccaaatg actgaaaatg cggggggaca
 49621 ctaatgatata tctctcccat ttagactgaa gagaacaaag agttggccaa tgagctgagg
 49681 cggcctcccc tatgctatca caacggagtt cagtacagaa ataacgagga atggactgtt
 49741 gatagctgca ctgagtgtca ctgtcaggta agggaccttc accagccaga ataagaatcg
 49801 acggcttttg tttgaaccta catctttggg gaaataacct aatcgccaca gagattcttt
 49861 ttatgttcca tggcctgata acaaagtgtt tttttttct ttaagatgca attatggcat
 49921 ctataagttc ttctttaaac tctcagatgg tttatcaaag tattaattat accccaggct
 49981 aagtatctaa gagaatgaat ctactaagac atctgaataa tttacctacc ttagttcaaa
 50041 gactaagtgt tgaatgtcag gtaaaataaaa cctgggttga acattcattt ttttttcca
 50101 accctgattt atattcagct ttggcatagg ttcttttagt acagtagcaa ttgtttttca
 50161 aatcacttag tctgacactg ttaggatgtt actgtctgct ttgtctcagat ggcactgcca
 50221 ggtgtgtgat tcaacttagc atccccgcct gccagtggcc agtgagtttg gaggttcacc
 50281 tggcttatct attaatagca aagtatttga atttgcttaa atacaaatca cagatgactg
 50341 gctgtgggaa ccaacttcat taaattccct ttcttttcca atataaagac agatcacaga
 50401 tctatagatg aggaaaaagt gcttatagat ctcccttctt cccccaaac acataatata
 50461 aaaatgtaaa agtcctggct gaattttctg agtttgattt cagacataga tttgacctat
 50521 gatgtttgtt gggtcctctg ctataaattc ttgtactgt aacttccacc ctgactaag
 50581 tagcaattaa aaagaacttt ccaaggaatg gactgacacg taaactagca ctagaactgt
 50641 ctctacgata gtggtggctg caaatatgac agagacagat ctatgaaaat cattccacta
 50701 gagcattgac agccctgacc atgttttggc ttgtaaaagga aatgtttacag gatgtagact
 50761 tctgtatgca acatgctcag cagcctgttc cctctcact ctcttgccct gcagaactca
 50821 gttaccatct gcaaaaagggt gtccctgccc atcatgccct gctccaatgc cacagtctct
 50881 gatggagaat gctgtcctcg ctgttggcgt aagttttctca aatggcatag ctattcttca
 50941 gtgactagggt cagttctaca tacatcctag acagccgagc acaacactgg aacccacccc
 51001 ccatctccat catgcttcca ttcagtttct tgctgcagca gctggttaac tgacagetta
 51061 tctgctgtac agagccaaaa ctccattatg agtacatcgt aattacctat ctggattgca
 51121 gtaatggcag tgaagatctt ggtatagctc attaatctg attttttget ttgaggaaaa
 51181 gagatgaaga cgtggcagca acagctctaa gttgactgct tttagaattt gaccttagtg
 51241 gcacagagtt aagaaaaatc tgctcaccag agatattgac aggttactg tgtaagcatt
 51301 ggctgatcg ggctggaag ttttgccctt ttcattctgta gggataagag ggcctaagag
 51361 aatagcagca atctgagctc tagagcacca aaagaaataa ggcacgatat cgttccatgg
 51421 caggttatcc ctggtttttg ttaccagtaa aatgaatgac tttgctgaga caatacttag
 51481 tgtagcaggt acaagttata aaagtgtatc attacaacta agataaggaa gaaaacagga
 51541 aaacagcact tgcccttcac acacacagaa acacacatgc acacacacac aaacacaccc
 51601 ttgtcacagc tcagaataac caattccatc cagggatcat attagcgata ttggcactgt
 51661 aatggctcgt tttacattta ttttctgttc cgcattcact taacatgtgc gttaaaagga
 51721 acaaagctag ctggaggtag caaagttttg aacttgaatc agggattgct aagaaaactt
 51781 acaactaatg accacagaaa gtaagtctt tgtcttctgt ctgatacage tagatgtgat

FIGURE 1 (continued)

55081 gattcttgtt tccatgatat ctgaggattc tcaaaagctc tgtgtaacag cagcatgggtg
 55141 taccctcagg tgtgcaagcc ccgtaacccc tgcacggatg ggacccacga ctgcaacaag
 55201 aacgccaagt gcaactacct gggccactat agcgacccca tgtaccgctg cgagtgcgaag
 55261 cctggctacg ctggcaatgg catcatctgc ggggaggaca cagacctgga tggctggccc
 55321 aatgagaacc tgggtgtgct ggccaatgcg acttaccact gcaaaaagggt agagccaggt
 55381 cctttgtgtg cctccagaaa gagggcccat caccttatca aaacacaggc taaggaattt
 55441 taaatactta aagtttggac atgaaactga aagattaaat ctcccaaagg gagaggggca
 55501 ctaattccta ttaaaattaa atcacttggg gccaaaaaca tgaacagggc tagctctttt
 55561 tgggcaactg tgttccatag tcaactcttc tgtccaaaaa aaagttcagt actctatcca
 55621 aataccagca aagcatgact tgtgttcaca acatctataa agcctagagc atttacacaa
 55681 attctgtatg tatatcccc aagaaaagtt ttattttctt gtcttcccat aaaaaaata
 55741 tgctgttact gagccaaatt ctgttctttt tctatttggga attccaggta cactccctcg
 55801 tgcattgagct cagcatgagg aaggcaactg aagcagtgat atatatcttc tcttctctag
 55861 gatatttggc ccaaccttcc caactcaggg caggaagact atgacaagga tgggaattggt
 55921 gatgcctgtg atgatgacga tgacaatgat aaaattccag atgacagggt aaaaacagtt
 55981 ttctatccct ttttcatctt ttcagttcag caacagcctg aaacactttg ggattcaagg
 56041 aaattacatg gctatagcaa aaaatatacc aaatcaatac acaggataat tagaaattat
 56101 tcattgtgtt ccagtagttt aaggatgtag atgttgccaa gagaattttt aaatgaggggt
 56161 tttgtttttc atcagaactg tttttctctg tacttgagaa attataatgc ataaacaaat
 56221 gccactttgt tccctagatt catttcaa atgtcacatga aattacagta aaattgactt
 56281 tgggcacact atgaactgag atgatgggat tatattctac atctcactaa cttctaacc
 56341 acagggatcc atttttttta ctatgtcctt ttaacttttg tagtgatcgt tttacactga
 56401 gtgatcaatt agcctatcca ctaggtagaa agtattgctg attttcacag ttttagacat
 56461 attatgcaca tgggtttgagg cttagctgtt tttcaaggac aacattgtta agtgctccat
 56521 ttcttctctt tgcaggacaa ctgtccattc cattacaacc cagctcagta tgactatgac
 56581 agagatgatg tgggagaccg ctgtgacaac tgtccctaca accacaacc agatcaggca
 56641 gacacagaca acaatgggga aggagacgcc tgtgctgcag acattgatgg agacggtaag
 56701 gtgctgctg atcagagggc ccgcgggaga cagggacatg cacagcttcc caaacgtact
 56761 tctgtctagt cctggctatt agtatgcact ttggtggaaa catccaaggc tggagagccc
 56821 agctcttatt tgtccctgt tctcttcagg tatectcaat gaacgggaca actgccagta
 56881 cgtctacaat gtggaccaga gagacactga tatggatggg gttggagatc agtgtagcaa
 56941 ttgccccttg gaacacaatc cggatcaggt aggtggatgg actcctttca gagtctttca
 57001 gtaaaactgtt ggaatatccc tttcatggcc tttgaaaaat gagcttaaca aagttcaaac
 57061 actttcatta ctgtggctcc ctggcttctc atagccaact ggaatacgtt catgtaaaata
 57121 atttgcctga tgtgagctcc ttgcacagag tctcacagat ctttagcatg aagatctggt
 57181 aacttcagtc ttaccttctg taagaagggc tactggactt gctcagcatc gtctaccatt
 57241 gttaagacaa attatacaaa gcagacatct tgcactgaca actgtacaat aatattaatc
 57301 atatgtaata ctaagagatg gaaaaataaa tgtgcataag caaaataacc attttcatgg
 57361 ctaatgatgt aatctagcta taagaaaatc atcaaaactaa ggatacatcc aaaaccaaag
 57421 taatttatcc ctgtcataaa cattacccag acagtataca acacagggac cagtggctcg
 57481 tttccatctt ttcaggactt ttcagagaag tgcagctgtc aacagtttta caactgaaac
 57541 cttctaagga aattctctgt tataaagtat ccagaaaatt tcatttaaca ttaagatgta
 57601 aacagttaac atttcatctt atcttttagta attaaatata actctatttg accttattta
 57661 gaaagtttta tatgtaaaac attttttaaat tatcccttct cagattttta tacgaaaaca
 57721 aagataaagg aaaaaaactt ttaaaatgta attgtacta ttgctatctt tctgcaggag
 57781 tgtgtaaata gacatgacac cccactggct gtatcaaaca atggagaatt ttcctgtgg
 57841 tgggggcata agttatcttt aacatgaatg gtttatactg caatttacc tccatttaca
 57901 tctctctttc agctggactc tgactcagac cgcattggag atacctgtga caacaatcag
 57961 gatattgatg aagatggcca ccagaacaat ctggacaact gtccctatgt gcccaatgcc
 58021 aaccaggctg accatgacaa agatggcaag ggagatgcct gtgaccacga tgatgacaac
 58081 gatggcattc ctgatgacaa ggacaactgc agactcgtgc ccaatcccga ccagaaggac
 58141 tctgacgggt agtcatggga gccactttct aagacagggga ctgctggcac agctgtgtag
 58201 attgaagaaa tgaaaccaag gctcaaagca tttgacagga tgaagggacc aaatgccaac
 58261 ttagacaaga tagtgacatt tctgacacca gtaataataa tagcacttta gaattttgct

FIGURE 1 (continued)

58321 gaactcttgc ttttttgacc tcaggcgatg gtcgaggtga tgcctgcaaa gatgattttg
 58381 accatgacag tgtgccagac atcgatgaca tctgtcctga gaattgttgac atcagtgaga
 58441 ccgattttccg ccgattccag atgattcctc tggaccccaa agggacatcc caaaatgacc
 58501 ctaactgggt tgtacgccat cagggtaaag aactcgtcca gactgtcaac tgtgatcctg
 58561 gactcgtgt aggtgagtag cgagttctta gatcctaaga gactgatgca tacatgggga
 58621 aaaacaaata taaaacctgg cagttgtacc tatcctctgt ggtgctgagg atgtctagga
 58681 acatgatgga gaaccttctg aaggctgcag gttttaacct ggctctgggc tcttcttcca
 58741 ggttatgatg agtttaatgc tgtggacttc agtggcacct tcttcatcaa caccgaaagg
 58801 gacgatgact atgctggatt tgtctttggc taccagtcca gcagccgctt ttatgttgtg
 58861 atgtggaagc aagtcaccca gtcctactgg gacaccaacc ccacgagggc tcagggatac
 58921 tcgggccttt ctgtgaaagt tgtaaactcc accacagggc ctggcgagca cctgcggaac
 58981 gccctgtggc acacaggaaa cacccttggc caggtaagaa gcaaagccct ggaacagaga
 59041 gagagcttat ggggtcctga ctagcaactgg ggatgctgtg ctttgacca gactctgacc
 59101 agggagtctt agaaagtccc cagcatcacc agctgcagca ttgaactctg ctttgaataa
 59161 acataatagt gttgaaaagg gagcttgacc aagaattgcc ctgcaaactc taaggtgact
 59221 tcagcctttt caaacaaaaa aacctccttc cctcctctct gtctgcttta tatgtgtgct
 59281 cagtggcaca caacaaatat gagaggactt ggaaaaatcc cccattgcag cctctaaact
 59341 tagatcagct cagtaccttt caagcattgt ttctgatgga atgaaataga aatctttacc
 59401 tgaaggagct gtgtttcaac ctttctttt ccttttccct cagggtgcga cctgtggga
 59461 tgacctcgt cacataggct ggaaagattt caccgcctac agatggcgct tcagccacag
 59521 gccaaagacg ggtttcatta ggtacgatca tactgattca ctttcaacta cagtcacact
 59581 gagggacaaa aagacaaaaa gtattaaata gcattgtcac taaacaagat tttttttccc
 59641 tgcagagtgg tgatgtatga agggaagaaa atcatggctg actcaggacc catctatgat
 59701 aaaacctatg ctgggtgtag actagggttg tttgtcttct ctcaagaaat ggtgttcttc
 59761 tctgacctga aatacgaatg tagaggtaag agcaacatca ccatgaatgt acactggaca
 59821 tctctatttc agactaatat caaggatgac ggttatgggg gagtccagt taaagactgt
 59881 tttggagaca gggttatttc tattttgctt ttgaggacac aaggacaaaa atggaataat
 59941 gcctaggcac tgtggcttat gagttcctga gtccttagct ataataatag ttgtcttagc
 60001 aatctctgtg ctctcatatc acagtgcaaa ggtaagctgc agaaaagctc ctatataatt
 60061 tggacttcat taataatact gttctttaca attatatatt tatatatett actgcttatt
 60121 gttttatgca tgccatcaca gcacgagtta gcattcccaa cttttccctg tatacaaga
 60181 agggagagga atgttgcttt catattggca tgttaaatta atgttacta ttaaacttag
 60241 catttttttt cctcattctt ttttacttag tcattactta agctcgtga gtccaacact
 60301 ggctctacca caaaataagt gcttaataata ttttactgg gccaaaggcca gatacctaaa
 60361 agatcaatga cagtagagaa agatggttga ttttactcaa aaaaatctaa attattaatg
 60421 taatttttga gtccaaattt ttaaaaataag actccctaaa ctgttaacat tgaaagcctt
 60481 tggaaagcat aatataatgt ctggaagggt cagctgtgt cggtctccta gcatcaatgt
 60541 cagctaataa aattaaatgc taatgtgctt gaacaacctt aaaattaggg tttgttcatt
 60601 agaaaagtag agctattcct atgtgggttaa cttattaact aagatgtcta tgcttttatg
 60661 aattagtttt catttgata tttatttata tttgtttatt taacagatcc ctaatcatca
 60721 aattgttgat tgaagactg atcataaacc aatgctggta ttgcaccttc tggaactatg
 60781 ggcttgagaa aaccocccagg atcacttctc cttggcttcc ttcttttctg tgcttgcatc
 60841 agtgtggact cctagaacgt ggcacctgcc tcaagaaaat gcagttttca aaaacagact
 60901 cagcattcag cctccaatga ataagacatc ttccaagcat ataaacaatt gctttggttt
 60961 ctttttgaaa aagcatctac ttgcttcagt tgggaagggtg cccattccac tctgcttttg
 61021 tcacagagca ggggtgctatt gtgaggccat ctctgagcag tggactcaaa agcattttca
 61081 ggcatgtcag agaagggagg actcactaga attagcaaac aaaaccaccc tgacatcctc
 61141 cttcaggaac acggggagca gaggccaaag cactaagggg agggcgcata cccgagacga
 61201 ttgtatgaag aaaatatgga ggaactgtta catgttcggg actaagtcac tttcagggga
 61261 ttgaaagact attgctggat ttcatgatgc tgactggcgt tagctgatta acccatgtaa
 61321 ataggcactt aaatagaagc aggaaagggg gacaaagact ggcttctgga cttcctccct
 61381 gatccccacc cttactcatc acctgcagt ggcagaatta gggaaatcaga atcaaaccag
 61441 tgtaaggcag tgctggctgc cattgcctgg tcacattgaa attggtggct tcattctaga
 61501 tgtagcttgt gcagatgtag caggaaaata ggaaaaccta ccatctcagt gaggaccagg

FIGURE 1 (continued)

61561 tgcctcccaa aggaggggca gccgtgctta tttttttatg gttacaatgg cacaaaatta
 61621 ttatcaacct aactaaaaca ttctttttct cttttttcct gaattatcat ggagttttct
 61681 aattctctct tttggaatgt agattttttt taaatgcttt acgatgtaaa atattttatt
 61741 tttacttatt ctggaagatc tggctgaagg attattcatg gaacaggaag aagcgtaaaag
 61801 actatccatg tcatctttgt tgagagtctt cgtgactgta agattgtaaa tacagattat
 61861 ttattaactc tgttctgect ggaaatttag gcttcatacg gaaagtgttt gagagcaagt
 61921 agttgacatt tatcagcaaa tctcttgcaa gaacagcaca aggaaaatca gtctaataag
 61981 ctgctctgcc ccttgtgctc agagtggatg ttatgggatt ctttttttct ctgtttttatc
 62041 ttttcaagtg gaattagttg gttatccatt tgcaaagtgt ttaaattgca aagaaagcca
 62101 tgaggctctc aatactgttt taccctcatc cttgtgcata tttccaggga gaaggaaagc
 62161 atatacactt ttttctttca tttttccaaa agagaaaaaa atgacaaaag gtgaaactta
 62221 catacaaata ttacctcatt tgttgtgtga ctgagtaaa aatttttgga tcaagcggaa
 62281 agagttaaa tgtctaaca acttaaagct actgtagtac ctaaaaagtc agtgtgtgac
 62341 atagcataaa aactctgcag agaagtattc ccaataagga aatagcattg aaatgttaaa
 62401 tacaattttc gaaagtattg ttttttttct atcatctggt ataccattgc tttattttta
 62461 taaattattt tctcattgcc attggaatag atatctcaga ttgtgtagat atgctattta
 62521 aataatttat caggaaatac tgccctgtaga gttagtattt ctatttttat ataagtgttg
 62581 cactactgat tgaagaattg ttggtttttt cttttttttg ttttgttttt tttttttttt
 62641 ttttttgctt ttgacctccc atttttacta tttgccaata cctttttcta ggaatgtgct
 62701 ttttttgta cacattttta tccattttac attctaaagc agtgtaagtt gtatattact
 62761 gtttcttatg tacaaggaac aacaataaat catatggaaa tttatattta tacttactgt
 62821 atccatgctt atttgttctc tactggcttt atgtcatgaa gtatatgctt aaataccatt
 62881 cataaatcaa tatagcatat acaaaaaata attacagtaa gtcatagcaa cattcacagt
 62941 ttgtatgtga ttgagaaaga ctgagttgct caggcctagg cttagaattt gctgcgtttg
 63001 tggaataaaa gaacaaaatg atacattagc ctgccatatt aaaaacatat aaaagagaaa
 63061 ttatccctaa gtcaagggcc cccataagaa taaaatttct tattaaggctc attagatgtc
 63121 attgaatcct tttcaaagtg cagtatgaaa acaaagggaa aaacactgaa gcacacgcaa
 63181 ctctcacagc gacattttct gacccacgaa tgatgccttg ggtgggcaac acgattgcat
 63241 gttgtggaga cacttcggaa gtaaatgtgg atgagggagg agctgtcctt gcaatgttga
 63301 gccaaagcatt acagatacct cctcttgaag aaggaataat aagtttaatc aaaaaagaag
 63361 actaaaaaat gtaaaatttg gaaggaatcc ataaatgcgt gtgtgtctaa atacaaatta
 63421 tcatgtgaag aaaaggccca agtgtaacca taagcagacc ttgatttttg gatgggctaa
 63481 ttatgaatgt ggaatactga ccagtttaatt tccagtttta atgaaaacag atcaaagaag
 63541 aaatttttat agtaggttaa aggtctggct ttgaggtcta ttaaacacta gaaaggactg
 63601 gctgggtgag ataaaatctt ccttgttgat tttcactctc attctataaa tactcatctt
 63661 tctgagtagc catgatcaca tacaaatgta aattgccaaa tcattttata gtaccaaggt
 63721 gaagaagcag gaactagaaa gtgttgataa tagctgtgga gttaggaaaa ctgatgtgaa
 63781 ggaaataatt ctttgaaatg gcaaagaatt aaataccatc attcattatc agaagagttc
 63841 aacgtttgaa gtgctgggag ataattctaa ttcattcttg gatagtgaag caaaactgat
 63901 tgaaaatacc aagataagac agaaaaagt actggaaaga ggagcttttc ttcaggcat
 63961 gttccagttt caccctaaga ctgaccttca aataatcagg ttgtactgaa ataaaggact
 64021 tgtaaaaaat taaaattatg tcatcgagat gatagctttt ttctctctcc aacagtttat
 64081 tgtcatgtgt tgtgggagag ctcgagtga gagcaataaa ctccaggtct tataagaatg
 64141 tacatacaat aaaggtggtg ccagcagttt ttttttttct aaagagtcac atgtagaaaa
 64201 gcctccagta ttaagctcct gaattcatc cttaaataaa ttggctctct ctctcttcta
 64261 taatttcttt ttctttttat ttttgagatg aagtcttgct ctgtcgccca ggctggagtg
 64321 cagtgcacac atctcggtc actgcaacct ctgcctcccc ggttcaagca attctccctc
 64381 ctgcctcagc ctcccaagta gctgggacta caagcgcccg ccaccaagcc tggctaattc
 64441 tgtattttta gtaaagacgg ggtttcacct tgttcggac aaacactaag ccctaagggg
 64501 aaatccaaaa taaaaacatc tatttttaat aacactttct atctaaatca gggtagcttt
 64561 ttaaaaaaaa tccggaagct ttttgttgaa ttacgttaca gacttagtta ccagtccttg
 64621 ttagagttac cttcagttga catgctgtga atgggtccac ctcttttatg gcagaattca
 64681 ttacttaaaa taactctatt ttcttcccc ttacctaaat aacagaaagg ctactatgt
 64741 cccaaatatt attggcagaa gcaaactata aagtcataag ccctttgcag tgcaagtcta

FIGURE 1 (continued)

64801 gaaataattt tactctgtgt ttctttctgt cteccctcttc cctccccttt ttccttcccta
 64861 cctccccttc cctcccctcc tcttcttctc tctctctctc tctctctctc atacatacaa
 64921 acatcaaata ccagaaaagc atagatttag aaagctgaac tctcttgaaa cgctgacgga
 64981 caacactggc cctctctctc cccacaacaa attctcacc atctacacct tgcctctctga
 65041 ttcttcccac ccaaacccta aaacacagag tgtgcctcat ggcattccta tgagaatcta
 65101 aaatcacacac ttttaactta tacttccatc ccacagcaaa actcttgga tcaagataaaa
 65161 ttatacgtag cacattgaca tcagcatgaa caattgctat tttaaatgaa caaatagtaa
 65221 actgaaatag tgtctggaaa aagaaactgc ctatcaatac ctctgaaaat agtagctata
 65281 gaattcctca ttttaaaaag tcaaggaaat tccatataaa caatcattaa tgttattcag
 65341 tatcagtggg tgaacatgtg ccagcaaaaa caatgttatg tatacatcac tcaaatttta
 65401 ttaaaggcag cacaatagcc cgctcatttt ttgattcaga aataaaactgg acttccaatt
 65461 ctaatgccaa ctcatcttat ggaatgtcaa cacaaaattt tctcatgaa ctgaagtact
 65521 gacttgtaac taaaccatct ctcttcaaat agtaccgcag actgtctttt aaagttagctc
 65581 atctttatct gatgcaatct aaaaggccca aactctgaaa gaaaataaga aactattggt
 65641 aactattatt aacaaagtaa tatatcaaat aattcactca aactcctact taagaaactg
 65701 gtcataccca ataagatagt aaaggctctt ctaatatgtc tttgttgaga caattcattt
 65761 catcttatgg caggttgtac cagtttcaca gacatgagac aagtgggaag aaggaaaagc
 65821 agggccacag caaaaattcc cagtaccac catgatctgt ctgaatcaca gtagagggtga
 65881 aacatacaaa attgaatata ggacaatcac agcacttcaa cgagttttac ctaaacacgt
 65941 atacattaaa atgttggttt ttataatgaa tctaataact gtaagattag caataaattt
 66001 ataaacaatg gtcccagaaa ttttaatgag caaaaaccac tgaacaatta caccacaagt
 66061 ctcaaaaata tcaaggaaat ataatccaca aagagcgact ccaaatgtca aaatcaataa
 66121 agaatagtct ctgcagtgca ttcattgaat tcaaataatt caataagaaa ttttaatttaa
 66181 cttcattacc aactttctga aaagcacacc cagcaagtcc ttgattagggt tcttttacat
 66241 tcttctgctg catctttagt ctctgtctca tctgcacata aaaacaataa ccacagttat
 66301 tagagattca gaaatgtatg cataattaag aaaaacaact cagcctataa aatattaaat
 66361 ccttttacac atgaggcaat aatcacactc tcatttaata cttactgaac agtcaccacg
 66421 agctgcagac aaagtttacg agaaaaatag aaagatcagg gcgcctactc tcattgagct
 66481 tacagctcag ggagaacact acaggttttg gagctaaaat gattatggat gtggagacac
 66541 acacagaagt taatatcttg ctttctacta agtttctggg aagtacagtg agaccaaaag
 66601 taaatgttat atgtagaata gataagagct gatcgccctt catttcttga agtgagaaaa
 66661 aaaattgtga catcaacaga aaaggaatgg aaatattttt ctacccttgg tgagaagggt
 66721 atcagaaaat gcagaattga caatagaact aaatttttaa aagacaaaga gaaacaggag
 66781 aaactggaac cttcatgcac gactggcagg aatggaaaat ggtgcagtag ctttagaaac
 66841 agtctggcag ttcttgagaa gggttaccata gacctggcaa ttcacttct aggtataagc
 66901 ccaagagaaa tgaaagcata catccataca aaaacttgta cacaagcgtt catatcaaca
 66961 ttatatgtaa tagccaaaaa gtggaaacaa ccaaatgtc catcaaatga tgaatggata
 67021 agcaaaatgt gatatatcca tataattgag acttattcaa caatagaaaa gagtggagta
 67081 tggatacatg ctacaacatg gatgaatctt gaagacataa tgtaagaagc cagtcacaaa
 67141 aggccatag cgtatgatt ccatttatat gaaatgttca gactaggcaa attcacagag
 67201 acagaaagac tgggtgattgc ctagggtggt ggttggggaa aatgggaagt gattactaat
 67261 acccaaatg ttgcgttctc ggggtgggaa aaaataaaaa attgatagt gtgatggagg
 67321 tacaactctg taaatatact acaacaatt gaattgcaca cttttaatgg gatgaattgt
 67381 aggaagctgg tgaacagtgg ctcccaaaa ctcacatcct catccctgca acctgtgaaa
 67441 ggggtcttct tagatgcaat taaattaagc ttctcgagat aagaagatca tctggattc
 67501 tctgggtggg ccttatattc aataagaagt gttgttatc aaaaaagaca gagggagatt
 67561 aacacacaca gatggaggga ggcaatgtga agacggaggc agagactgga gtgacgtggc
 67621 cacaaagcca ggaatgcca tagccaggag aagctggaag aagcatggaa gcgttctagc
 67681 gttctctctt agggcctcca ggtggcgtgt ggccttgggt acaccttgat ttcaaaactc
 67741 tggcctccaa aactgtgaga gaataaattt ctgtcatggt aagtgtgtgt gacaaccata
 67801 ggaaactaat acaaatatat gaattatctc tcaataaagt tcttattaaa aaaagactca
 67861 acctgtgaat gaagggcaga tgacttgac tttcagagca aagtgataaa tgtagtggta
 67921 ctgtcaacac atggagaaga aatattaaac aggatgtaga ggcaggtggg atgaatgaaa
 67981 agtggatcac aataccccc tgcattgaggt gggagatgat gggacataat tccacgcctt

64801
64861
64921
64981
65041
65101
65161
65221
65281
65341
65401
65461
65521
65581
65641
65701
65761
65821
65881
65941
66001
66061
66121
66181
66241
66301
66361
66421
66481
66541
66601
66661
66721
66781
66841
66901
66961
67021
67081
67141
67201
67261
67321
67381
67441
67501
67561
67621
67681
67741
67801
67861
67921
67981

FIGURE 1 (continued)

68041 cgtaagtgt attctctcac tatggagtgt tctttttgcc caccagcaa ataaccattc
 68101 atccttggag gcacaactta aatgccacct cccatccctc tatagtgttg tctatgtact
 68161 ttgtcctgaa gctcttacta tgtttgtccc accctactgt aattaagtgt ctgtcttttag
 68221 gcacttaaaa attttcatca atagaactag attgagtaac aaaaaatttt tcatcaatat
 68281 acctagaaca acggtcctca actgggggaa attttgcccc caaagaacat tttttgcaat
 68341 gtctggagac atgtttgtct gtcataactg cagaggacac tactgacatc aagtcagtaa
 68401 aagccaggga ttccattaaa caccgacaa tgcacaagac agcccttcaa atgtccaact
 68461 caaaatgcta acagtgtgta ggtgaaaaac tcttggaact tagaaaagca tctaatacac
 68521 aggagaatct catgaaatgt ttgtggggtt aatcgatgaa tgaatggatg gcagatggat
 68581 gatgaatgaa tagcatggag ccttgggggtt ttaaagcatg gctgcacagc agaatcacc
 68641 agaccctgat ctcaaaaact gacttaaagt actgctgcca gaaccacccc ctagaaattg
 68701 acttaattca tctgggatgg aaccaagctg ctaatctgtt taaatctca ccaggtgatt
 68761 ctaacatgca gccagaggta agaggcagca ctggctaagg aacagactca gtatagctta
 68821 aatgccaggc cggctcaagg cagacggaag tagagagact gggcaatcaa aagtatgcaa
 68881 agcatagata gtccataact ggttatatgt gtctccaaac aaaatattaa cgaagaaaga
 68941 gtagagaact caagggaggg tcccagggca tgcttgctct aagaggaagg ttgccccaaa
 69001 gaatgacaag atggatggct ggagagatca caagacaatg tggatgcagc agtatcttcg
 69061 ttaaaaagaa atttaagaag aaaaaagcag acattcagca gatgggaaaa aaggtacttt
 69121 ctgtacatta ttttcaactac caccatttat ttttgataat cctaaagtat aagtaagtag
 69181 taaaccattt agtccggagc ttctactctt gtaacatgca cacaatcagc ctgcggggtta
 69241 tcttaaaatt caggtctctga ttcagtaggt ctgcagtggg cctggcactc tacatttctt
 69301 tttgttgttg ttgttgccca ggctggagtg caatgtcatg atctcagttc accgcaacct
 69361 ccacctcccg agttcaagcg attctcctgc ctgcagctcc caagtagctg ggattatagg
 69421 catgcaccac catacccggc taattttgta ttttttagtac agatgggggtt tctccgtgtt
 69481 ggttaggctt gtctcaaaact cccaacctct ggtgatctgc ccgctgggc ctcccaaagt
 69541 gctgggatta caggcgtgag ccacagtgcc cggctgagac tctacatttc taacaagctt
 69601 ccagttgatg ctgacaccac tagtccatag acctagttaa cagtcacaat agcggatctt
 69661 cagtaacttt ttactttacc caatttgaat gaagcaacag aaccagaagt ttccaataac
 69721 tgataaagtg ataaggacat tacaattaaa tatcaaaaact ctcaagcatg cttttgttca
 69781 ttttatactg ctaaaatgat agagaaaatg atcaacagca aatatttata tgaaaagtct
 69841 acctcaagaa gaattaaaga aaattagttg aaagtaaatt gaagatgtaa attaaccaaa
 69901 tataaactta ctatacacta aggttttata ttaaaaaatg aattcacatt agaaatttct
 69961 aatatggcat ctctgatatt ttgaccaaatt aaactctgga agagcattgg tttgactaga
 70021 caaagggagg ttaagtcact aagggcattg aagaagcaac gtgtagcctt ggaaaagtaa
 70081 ttttaacaaat agtaactatg aggtctgaag gcacaccctg tttgagacaa acagaaaact
 70141 attaaggcaa tgatgagtta aggacttccc taagagcaat ccaaaatatt tttaatggaa
 70201 aagatcagct aatagggta ctgtttctag aatctcaccg ctctcctgca aaccagtaag
 70261 actatactat aacaaagaaa attttctcaa acaatctagt tcccttgaaa ctgttcaggt
 70321 ggtatgacta aggacatata ccaacacaca cccacttcaa accactgcaa cacccttacc
 70381 aaaagtcaat ctgccggcaa ccaggcctca tccagcaagt tacaatcaat gggcaaaatt
 70441 tcagcctcaa gtatattcag attatatagt cgtcattatt agtagaactt tttttttatc
 70501 tgaggatccc aataagataa catacttagc tttctttcat ctaaaactgaa atctatagtt
 70561 ctcaagtgtt cacagtgaat tctgttccct agcattaatt tagcagcctg gacattccat
 70621 cccaggaaact ctgatttcag caagtctgga taggtccttg gacacagcta gaaaacaaac
 70681 aagcaaaaaa ctccccagat gatcttgata ctcaactgtg ttaggaataa tgctctgcag
 70741 tttgtaacag ggcttctcaa actttattgc cggaagtat caccagggtat cttattaaaa
 70801 tgaaaattct catgccttag gttgtgggtg ggcccttagg ggccctgcat ctctaacaag
 70861 ctcccagtggt ttggattgca ctacaagcag agggagactta caacatggaa tggaaattca
 70921 atgtctccaa aggaccaagc ccatgaagta gagagggcta ggtgggggtt gtgtcctctt
 70981 ggagaatata catgccttct aaggggagca tctgtactc agctcccgtg ggtgggtggtta
 71041 gaacttgctg atttgtcaga aatgtcagaa atctagcctt ttatggaaaa atctcctgac
 71101 aatgttcaat gttaaacgcc atgtaagcca accaagtcca gtcccagagc taatcatttt
 71161 atttgaatgt tctcatttga tctcattac aacctacag ggtattaagc catcttatat
 71221 gatagacaag gaaaccaagg tgtagaggag agagagagaa attaactaac ttacctaaga

FIGURE 1 (continued)

71281 tctccatcta gcagcagagc aaggattcaa acccaggtct tccctaccca gaacccatgt
 71341 tccataaccac taggccaatt cccactgggtg ggtggtaggc caccctccct ctgctaattct
 71401 aggtttctagc ttgggattct gctacttact tggactccct taatttggtc ctttgagtaa
 71461 ctaattctgct ctttggtttt atgttcacag ttccaattta gagtgaacca ccattccagt
 71521 ttgctagaga ctgaggattt cctggaacat ggaacattca atggtaaaac caggacactt
 71581 ctgagcaatc caagacagtt ggccactata gttttcattt aggggtatta ttttaaaaag
 71641 aaaacaaaac ttacatgact cttgttgcat ttactatagg cttttaaact gacacacaat
 71701 tgtacatatc tatgggatac acagtgatat ttttaatacat acaatgtcta gtggtcaaat
 71761 caggtaaatt gcatacccat caccctcattt atcaattctc tgtgttaaga acattcaaaa
 71821 ccttctcttc tagctatctg aaaatatata ttattgttga ctatagtcac cctacagtgc
 71881 tatagactat tagaacttat tctcctata aagctataat tttgtatcct ttaaccaata
 71941 actccctatc ccttccctcc tgctaactta tacaattttt caagaatact gttcactcaa
 72001 cagggtccaac gagaaattcc actttgtttt tcttaaagaa ttagtgcagt tctgtcccca
 72061 ttttttactg cacaactgat tttgtgtccg tttttgccct attttactat gttgttattt
 72121 tgctaatacc atgttcatct ttattttatg aattttctgtt aataattagc tcaaatgctt
 72181 agtaggaagg gagaatacta tacaagcata ggtggctttt gctttgatta ctagaaaagc
 72241 aactcagtat tagataattt gattaaatac tagactaact cacagacctg atcctttttg
 72301 cttcggaagt gccagtacat tcaggattgt ctctgagggt aagtgtgacc tgacaacact
 72361 taatccccac tctcctcatg ctcccacaag gaggaacttg cagtgggaagc atcctggcct
 72421 cacttcacac cctccacact gtccgtggga agctaagttt gggagatgaa atggcatgct
 72481 cagctcagcc cctgcctcct caggagtcag caccagctc ccacctgacc ctgctcccca
 72541 aggtcccatg cttegtcctt ccacctattt ggttttacat ggacaggtct ccacagatga
 72601 tgccctgagat tttccatctc tgccagtgc tgggtgagta cgtttatttt aaaggcatag
 72661 cattggaagc ctgtctggct gcccaccggg atcatgacaa tctctacat ttcattagca
 72721 ataaagcgaa cctccttgat ctccatttgt cagaatctat ctctctctca gtcggttctg
 72781 acctgggtgg ggaagagaag agtgctagtt atttgctccg taaaacccca gtaactagtg
 72841 agtacaatgc tgaatttact gaaccttgta ttcaaaaatt caaataatac tggttaccat
 72901 gaagcttaaa gcacaaacat tgataatgtg ttccacattg aaaattttta atacaactga
 72961 taggcaaate cttatttttt aataaccaca tttaaattgg tcttcaaggt cactgagttt
 73021 ggtttttagtt ttgaagcctt atctgactct gccttttaga agcacaattg aaatagttgg
 73081 aacagacctc agcacatcaa ggaaaagaca actacgtatc agtaatactt gctattgaaa
 73141 gagaaaacaa taaatggctt ttcttatttt ctctctgtct gcttccagaa atctaattccg
 73201 aatcacactc ttgtgtatct atttcttgag aaggaggtag aacagaaatg taacagccaa
 73261 acacgcagca actcctcatt agttatgtct tcaaagggct ttttgtcaag aaaactgaca
 73321 cagcattcag ttttgatgca cacttttgta gaaagcacat aatggacaat ttagtatttt
 73381 agaataaaat tgatcagcaa gctattttta taattataaa taatgaggtt agtaaaactc
 73441 caacttcaga tattctaaca tgctcaaagt aataatgtaa gacctattcc tttagagctta
 73501 ttatgtaata aacagaaagt aaaatatggt tcacatatcc acacctaaaga cacttaate
 73561 atagtcacag ggttaattgt tataattgca tattaacatt atctgggtata atcagagcca
 73621 tgttctatgt ctccatagct tctttccatt aagtcacatt aagttccaat tcattccatc
 73681 ttgtcatgct ctaccagtg acagatatgc atcagtggtga ctcatgttca cataaaaaata
 73741 aagtcataatc tttagcaaatt acttttctaa acccccctat atatggactc catgggaatg
 73801 agatcccata cacaagaaat gattgcatcc aattttgtaa gtttgatttc agaagtcaga
 73861 ggagattcag atactttcta ataaaaacac tttatccaaa agaaggaca atataacttca
 73921 atttcagagt agaacaaagt ttccacagtt cattttattaa atgaagatct ttggtgtgaa
 73981 gaaagcaaac cacaccatc taactgaatt gcatttgtaa gtgaactctg ctgctaaata
 74041 aaaacattac agctggaagt tctactcagg aagatggcag aatgggtgtt gctcagctcc
 74101 cataccccca acaaaaatcc acccaactat ttacagacaa gaatatcttc attaatactc
 74161 ctgaactccc tgaacgtgaa aagctgagac accccttgg accacataac tgaaaaaagc
 74221 ctcatcgaag gggtaagtgg aatagaggaa tggtttcact ttgaccacat caccactccc
 74281 ccaaaccctg ccacacctca agccagcaca gcaccacaca cagaagattc cctggggccc
 74341 agagtttcta cagtgggaaa agagagaggg aaacattcag cttccccaac attctgggac
 74401 cctgagcagg aagccactc attattatct cccgggaaac actggggagta caggcagggc
 74461 tagaccacct aggatcagcc agaaacaaag aacaaaagtg agactcacag aaacgagcac

FIGURE 1 (continued)

```

74521 atggatcttg cagtggctct gcattctagc caatggaggc actccaccag agaaactggc
74581 caacagcatt agcactgtcc tgcaggaagt atagtcaact gatctgccag gcttcattcc
74641 ctagccagct tccccaccta gctctgggtg tctccttaag ccttccccag gccaggcagc
74701 aagggcaggt cagtgattac ctaaggaggg tagcaacggg cccaccccaa cccagcagc
74761 caactagcct aacctacca agccttcacg ttctgcttaa ggcttgccag gctaggaggc
74821 aagtgcaggt caatgaatga atatctatgg acaaaagtac ctggccccac ccaaccccag
74881 cagctgcagtg gtgacccac aaagcctcag tgctttgctt aaggcttccc tgaggggaagc
74941 ctgcatccat gtgtttctct agacgatagc ctggcccatc ctgaatggct gagcacaaca
75001 gcagaaacct caccagtcg ctgagcccag cacacagacc tgcccagcta cagattaaaa
75061 acagcagtac ttcccagcca gggaaaacaa catgcaaccc tgtgcaatca gaggctatta
75121 cagagcccag ccagtagctc caccttaact gtggagtcca gctagtgate tgtctcatca
75181 gaccacagag cacagccaga agttccactt gacctcaaag aacagccagc aggctggccc
75241 aacagcaaca ccaacagcaa ggtgtacctg tctggggttg ttaccagctg gcctatccat
75301 aatcaaatgc taaactaact agtgaaggte taccactgtg aaagaaaacc ttcaaggcca
75361 aaagagggtg ccatttcctc aaatgtgtag acaacaaggt ttagaaagaa tcagggaaat
75421 gtgacacaac aaaaagaaac taataaagcc ccaataatgg accctgaaaa aaatgtagag
75481 ctatgaaaaa agaatgaaga aagcctacat aaatctatgg gacaccatca agaaaactaa
75541 ctttcttata ataaaattct aagaaaagata tgataaagaa aaaggcccag aaaatatatt
75601 taagaaaaata tggctgaaag ttcccaaaat ttgtggaaat atgacaacat ccaggatatag
75661 aaagctcaga gatctccaat taaattcaag ccaaagatga gtgcaccaag acaaatcata
75721 atcaaaactat taaaaaaca agacggctcag ggcagtggtc tcatgcctgt aatcccagca
75781 ctttgggagg tgcaggcggg cagatcacga tgtcagcctg gccaatatgg tgaaacccca
75841 tctctgctaa aaatacaaaa atttgcctgg catggtggtg cgtgcctgca gtctcagcta
75901 ctcaggaggc tgaggcagga gaatcgcttg aaccaggag gcagaggctg cagtgcagcca
75961 ggatcatgcc actgcagctc agtctgggtg acagagcaag actctgcctt aaaataaaat
76021 taaattaaaa ttaaaataaa acaaagacaa agaactctga aagcagtaag agatcaggaa
76081 tgtataatat tcaaggaggt cccaaaacag caaccagcag atttctcagc agaactcctg
76141 caagccataa aagggtggga taatataatc aaagtgtaga agaaaaacaa aactggcaac
76201 caagaatact taactcagca aagctattcc tcagaaataa gggataaata aaaactttcc
76261 caaacaacaa aaaactaagt aagtttatca ccactaggcc tgcctaacag gaaatgctaa
76321 agggagctaa gctgaaataa aaggctccta attgatacat aaaacttata aaagcaaaaa
76381 gcactaaatg gtgtaagtaa gacatagtc tattcagaat aatactgtaa ggatgatgtg
76441 taaaggaatt ttctctgtat tatgagagtt aaaaaacaaa actattaaaa acaaatgcag
76501 ctataataaa ttgttaaagg aatccaaatt acaaaaagat gtaaaattta catctaaatc
76561 ataaaagttg tccggggggag ggcgttaaag tattgagatt ttatatgtga taaaagttat
76621 cagcttaaaa tagcctgtta taataagata ttttgttgtt gttttttttt attttttaag
76681 gagatggagt cttgctatat tgcccaggca gggctcaaac tccttggctg aagtgatctt
76741 cccacttcat ccttccaagt agatgggact acaggatatgc acaaccatgc ccagcctgta
76801 caagatgttt tatataaacc tgatggtaaa cacaataaaa aacctgtaat agttgcacaa
76861 aatataaaaag gaaaagattc aaagcatacc atcacagaaa attatcaaac cacaaggaa
76921 agtagcaaga gaggaagaaa gaaacaacag ctctacaaaa caaccagaag caaattacaa
76981 aatggcagta gcatgtcctt acctatcagc aattaccttg aatgtaaatg gattaaagtc
77041 gctagtcaaa acacatagag tggctgaatg ggttgaaaaa atagtaataa aaggccaact
77101 atatgctacc tgtgagagac tcactttact agtaagaaaa tacatggaca aagtgaaggg
77161 atggaaaagt tactccatgc aaatgaaaac caaaagagag caggggttag ctatacttat
77221 atcagacaaa atagacttta agtcaaaaagc tacacaaaga gacaaagaag gtcattatat
77281 aatgataaag ggatcatttc attaagagga cataattgta aacatataca caccacacac
77341 tggaacacct aaatacataa agcaattatt acatgatctg agagatagac tgcaatagta
77401 taagagtagg ggacctcaat accccacttt caatgatgaa gagatcatct agacagaaaa
77461 tcaataagaa aacattggac ttgaattaca ctttaaatca aatggacctc acattcatat
77521 acaaaacatc acaccctaca gcaagaaaat acacattctt ctcaagcaca catgggacat
77581 tctccaggat agggccacaaa acaagtctta atgaactcaa gaggatttta atcatatcaa
77641 gtatcttttc tgatcacagt ggcatgaaac tagaaatcta taacaagaaa tcttggtgaa
77701 ttcacaaata tgtggaaatt aaacaacatg ctctaaaca aacaataggt cagagggggg

```

FIGURE 1 (continued)

77761	aaaaaaggaa	atcaaaactat	attttgagac	aaacaaaaaat	ggaaacacaa	catatcaaaa
77821	ctaattgggat	gctgacaaaa	gcagttctaa	gtgggaaata	taaaacaata	aatgcttatt
77881	atcaaagaaa	aaatctcaaa	taaacaatct	aatgttaaac	ctcaaaaaac	tagaaaaaga
77941	accaactaag	tccaaagtta	gcagaagaaa	gaaaataaca	aatattagag	ccaaaaataa
78001	caaaatggag	actagcaaca	atagaaaaaa	tcaacaaaaac	taagaattgg	ctttttgaaa
78061	agataaaacaa	aattgacaaa	cccttagcta	gactaactag	gaaaagaaag	aaagaaaact
78121	caaataaaatc	aaatcctctg	aactcatcac	accatcatgt	aatgggaaga	taatgattat
78181	gaccatattt	ttgtctcatg	atagtttttag	cttatacaaa	aagtcttaat	ataaacgacc
78241	aaaaataaaag	aaatgcttaa	attatgatac	atcataagat	acattgcagc	catcataatg
78301	aatgattttag	aagaatattt	aataacacag	aatgctcaaa	atataaaaaga	aaaaaatatc
78361	agaatataatt	ataagaagaa	tatgaagaca	attttaaata	cacaactaga	aaaaagatga
78421	atgttaatat	taacaatgaa	taggtctgga	caatgatttt	atcttctaca	cttttctgta
78481	tgtttcaaat	agccttcaac	aaatttacat	ttgttgtgcg	attagaaagc	aataacaaat
78541	acttttttaa	gtctttaagc	tcaaaacttc	tgcttattta	aaacaaaaacg	aaaatgaaat
78601	gaaagaggag	acattacaac	tgataccaaa	gaaatacaaa	gggtaattat	gtaaaattat
78661	atgccaacat	ataataacct	agatatttta	ttggataacc	tagatgtgaa	cagatttctg
78721	gacacataca	tcttgccaag	gctgaatcat	aaagaaacaa	aaatctgaac	agaccactaa
78781	tgagcaagga	ggttgactca	gtaataaaaa	gcctcctatc	aaaaaaaggc	ccagggccag
78841	atggctttac	tactgaattc	taccaaacat	ttaaagaaga	actaatacca	gtgcttctca
78901	aactcttcca	aaaaactgaa	gtggaagaaa	gccttctgaa	ctcattttac	aagaccagca
78961	ttaccagat	accaaagcca	gagaagaata	ccacaagaaa	aaaaaattgc	aggccaatat
79021	ccctgataaa	cacagatgtg	aaaatcctca	acaaagtact	agcaaaccga	attcaaaagc
79081	aattaaaaga	atcattcaca	tgatcaaattg	ggcttttatcc	ctgggtatgca	aggatgggttc
79141	agcataatgca	aattaataag	tgggatatac	cacattaata	aaatgaagga	taaaaacat
79201	atgataatct	caatagatga	agaaaaagca	tttgacaaaa	ttcaacacca	tttcatgata
79261	aaaattctca	acagattagg	tatagaggta	aagtacataa	taaaggccat	ataagataaa
79321	tctgtaaacta	acatcatact	caacggtgaa	aagtagaaag	cttttccaca	aggatgcccc
79381	ctctcaccac	tttttttcaa	catagtactt	aatgtcctgg	ccagagttac	gcaagaaaaa
79441	caaataaaaag	gcataccta	aggaaatgaa	gaaatgaaac	tatctctctt	tgctgatgac
79501	atgatcttgt	atatagaaaa	tgctaaagac	tccaccaaaa	aactgtcaga	agtgacaaaa
79561	aaaaatcagt	aaagttacag	gatataaaat	caacatacaa	aaatcaggag	catttctata
79621	cattaagaac	aaactatcta	aataggaaat	taagaaaaca	atcccattaa	caattgtctc
79681	taataaaaaa	aattaaccaa	ggaggtgaaa	gaactatata	ttgacaacta	tagaacactg
79741	atgaaagaaa	gtgaagaaaa	agcaaatcaa	ttaaaagatg	tcccatgttc	ccagcctggc
79801	ccacatgggtg	aaatctcgtc	tctactaaag	atagaaaaaa	ttagccgggc	gtggtggcac
79861	gcacctgtaa	ttttggctac	tggggaggct	gaggcaggag	aatcgctga	accaggagg
79921	cggaggttgc	agtgaagcaa	gatcatgcca	ttgactcca	gcctgggtga	cagggaaga
79981	ctccatctca	aaaaaaaaaa	aaaaaaaaaga	agatgtacca	tattcatgga	ctgaagaat
80041	taatggttaa	aatgttcaca	ctatccaaag	tcacttatag	atttaatgca	attcctatca
80101	aaaatccaat	gtcattttca	cagaaatata	aaagaaacaa	tccttaaact	tgtatggaac
80161	cacaatagac	cctgaatagc	caaagaaatc	ttgacaaaaa	aagaagctgg	aggtatcaca
80221	ctccttgatt	tcaaagtata	acacaattat	aattgcaaca	acatgctact	ggcataaaaa
80281	cagataagtc	aatcaacaga	acaggacaga	aagcccagta	ataaactcat	gcatttatgg
80341	tcaattgatt	tttgacaaag	atgtcaagaa	tgcacaatgg	ggaatgggtg	tggaagaaact
80401	gaatatccat	atgcagaata	ataaaatttg	atccttatct	caactccatgt	ataaaaaatca
80461	actcaaaatg	gattaaagac	acaaatataa	gacccaaaac	tgtaaaacta	ctagaataaa
80521	acaggggaaa	tgctccatga	cattgggtctg	agcagtgact	tttttttaat	acgaccttga
80581	aggcacaggc	aaaaatagac	aaatgtgatt	atatcaaacc	aaaaagtgtc	tgcacagcaa
80641	agaaaacaat	gaacaaagta	aagagacaat	ctgtgaagta	ggagaaaata	ttttcaaact
80701	acacatctga	taaggggtta	atatccaaaa	tatataagga	actcaaacaa	ctcaatagca
80761	aaaaaaaaaa	aaaaaattaa	aaaataggca	aaagacctga	acagacattt	cccaaaagaa
80821	gacataaaaa	tgcccaacag	gttcatgaaa	aaatacttag	catcattaat	cattaagaaa
80881	atgtaaatga	aaatcaaaac	gagatgctac	atcacacctg	ttataacaac	tattatcaaa
80941	agatgaaaga	gactgggtgt	gggtggctcac	gcctgtaatc	ccagtacttt	gggaggccga

FIGURE 1 (continued)

81001	ggtgggcaga	tcaagaggtg	agatcaagac	catcctggct	aacacagtga	aactccatct
81061	ctactaaaaa	tacaaaaaaa	aaaaaaaaaa	gtcaaaactca	tggaaagtga	gagtagaatg
81121	gcagttacca	gtggctgggg	gatgaagagg	gggaaaaagg	gaatggagag	ttgttggcta
81181	aagggtagca	gttttcactt	aggaagaata	aattttgaga	tgaattgcac	agcagggtaa
81241	ctacagtcac	taatcacata	ttgtatgttt	caaaaataact	aagagttaa	ttcaagtgtc
81301	ttaccacaaa	aaaatggtaa	gtgaggtgat	agataatgta	aattagctta	atttactcat
81361	ctcacattgt	atacatatcat	caaatacatca	tacttttacc	cacaaatgta	tataattatg
81421	ccaatctaaa	aaatattaat	ttaaaaatta	cagcttgaga	aattttcatgt	aagaaacaaa
81481	aaatccaaat	atttatatag	aatgtgtgac	ttacataatt	cttaagcaac	attacctact
81541	ttcattggta	atgtaaagaa	taaatgtgaa	ccatattttc	agtgttttat	tctaaaactg
81601	gttatatcatt	taaattcttt	tatttattaa	acaggcactt	ggcttaaggc	agcacttttag
81661	acaccatgga	aaatgtaaca	atgaattgca	agatagagtc	tctgttttta	aaaatgttat
81721	gcagtttttaa	ggaagagaag	gtgagtggtg	atgtgatcct	ataggaaacc	aaagtgtctg
81781	gacattcaca	gaagacagaa	aacttaacag	aggggaccag	ggaaggctac	aatcagagag
81841	gataaggttg	gaattcaaat	accattgaag	gggtacctga	acattttctgg	gaagaagagg
81901	gcctgaacaa	cagcagaagc	taggaaatca	ccgaaatcat	tagaccagat	tagctacaca
81961	ctgaataaca	tttaggtgac	tacttagaga	ttgattagga	aaagaacttc	aggtcagatc
82021	atggagacac	tgaacaagtt	aaggaattct	gattttgatc	aacaggcatt	ggagagccat
82081	agaagggaag	gtggttatca	aagctgtgct	ttaaggaaat	tctgtttagt	gttgtcaaca
82141	atggtaggaa	gagaagagag	acttgaggca	gggaggtctg	ggagaagggt	tatggcattg
82201	gtccagttga	agttgtagga	agagaaaagga	agggatgggc	atgagagaca	ccgcaggaat
82261	agaacaaaca	acacctgaac	actggaagt	ggaagcaaga	aagagaagta	attcagtgat
82321	gactcagatt	ttgtctctgg	gtgactaagg	aaatggaagt	caaaaccgaa	atctgactca
82381	gttcagagtt	aatggattat	agattttaata	aggaatagat	taatagatag	aaatgtaata
82441	gccaatatat	tttagagtaa	tctacaatag	aggtaaaaa	tgaatctatt	taaatagatt
82501	caccaattgt	tacacagatt	tctaacataa	ataattgaat	atttgtttgt	gtcgaaaact
82561	agttattgtt	gtatcctgta	ccatgaccat	tgcaagatga	aacactagat	cgtgacgaaa
82621	cacctgagaa	cataggagtg	gctcaggaga	ggaggtttgc	atacagaac	taatataacc
82681	acaatgagtt	acaagtttta	catttttaaat	tcattcctta	gaacaaattt	tcatcactaa
82741	agtttgaaaa	tactaaagtt	tgaagttgaa	atactaagca	aatctattca	aagtatttct
82801	ctccattcaa	actaatttct	cttttctctgt	gaaaccaaca	ttattttctg	gatgacacaa
82861	ttaattacca	tcaagaataa	cgtatttcat	agagtactaa	cctcaacttt	gatttcataa
82921	gagcattggg	aaataggttt	tatgtttgca	tactcttatt	gacgctacct	gtgacttaca
82981	aacatacctt	cttaccgcag	tctaatttaa	accataatac	ctttatattg	aggtgctttt
83041	aagaattatt	taccaaaaca	catgtctgcc	aagcctcacc	tgctattgta	ttctctggag
83101	aactgagttt	cagatgttgg	tcttctgag	aaaggctcac	actgatacca	tacagtggat
83161	catctaagaa	ggagggcctt	ttcagttctc	caatgccaa	agtcttcgac	ataaaatagt
83221	cttttgtgtc	actaataata	acgtccttgg	aaaattgaag	gcatttcata	ttctctgctt
83281	cagtgaaca	agcttctgac	atgttatgtc	cagtcaaggc	tttagtgaga	tagtagcctt
83341	tagaagcttc	acattcttca	ctctcaagca	tatctgcac	ttctacctca	gttttctgga
83401	cctttgtttc	tgattcattt	agcaatttag	agatgatgga	cctggaaagc	tgggggaaca
83461	caggtgttac	gtcctcaatg	tcttctcttt	ttctttctga	agaaagttaa	atgatggatt
83521	tttgttttaag	tatgcattca	tccagaagac	actttaactg	ttcttcagag	agacatgatg
83581	tggactctaa	ctgatgaaac	aaaccaaaa	attacatagt	cagttgactg	agtaaacaca
83641	tttatttttg	gtaggcatcc	agtaatacaa	atataaatgc	aagtaacccc	ttacacaaca
83701	cataaaaaata	gaaaaataat	tcaattgtaa	gtatccaaaa	ctgtagggga	aatgtcataa
83761	tcttggaaca	atcttttggt	ggtgtttctc	tgacccacc	catccctcag	catgaatccc
83821	accaccatcc	aattccttac	tgggaaaaaa	attggcatac	aaggcagact	accctacct
83881	ctggggattc	agcactccca	tgtctgtcca	caactatcag	tggacaatac	tgtggaagac
83941	agaaaaggaa	gggtgaagg	tgggtgatcc	tgcaatgtgt	cgttgctgca	aagctacagg
84001	tctaggcaga	ggccaggggc	attccagagg	cgggtgtatt	ggggagaatg	atttgatcat
84061	gcatacttaa	tctctgcttg	taaaggttac	cagggtctaa	tgtttcaacc	aagaccttaa
84121	atattttaaaa	acattttttt	tctttcagca	atattctcag	gaaataaaat	tttaaaaatc
84181	aaatgaaagt	agagagccat	gtcccaaca	acttcagctg	aataccataa	catttgagtt

FIGURE 1 (continued)

```

84241 gcaacaatct caaaaaggaa tgagattaaa atatagttaa acacactgaa aaaaaaatgt
84301 ctacttcccc aaaaaatcag tgtcttccat ggtttacatg tggattatct aggaaaagac
84361 taatcctcct ttacaggggg atgaattatc tgagaacaag aagtccecat aagaaaactt
84421 aatcatgaat ttcaatgact ttaatttcta cttcagcaaa gtaaaataat gttattggcc
84481 tactctgaag gtacatagta aaaaataact aaatattctg catatgtaaa gtactgaaat
84541 aaaaagctat tactgatact agtatagtta attctccact attaggtaaa gcttctaattg
84601 caactaataa atactaatat gtaaaacaat tttgtgccat gtttaaaaaa tattgtttta
84661 aattatgttt aacttaccta tattaanaact agtttttaca gtggcaagtgt tcactatgag
84721 tatgaggata ataagaaatt gtctggaaat atattcttag taattatttg gaattcaaaa
84781 ttcagggtgac tgaccctaag gttaatatat atgtcaagaa ataggatttg agatttgga
84841 ttcaaaattc aggtgactga cctaagggtt aatatatatg gcaagaaata ggattagaat
84901 tatgtattag caaattctac ttttagtcac taggcatttc aggaatccag atatagtatt
84961 ttatccatct gtatccagaa tcaggagcat tatctccacc ctactatgga aacctagtca
85021 agtagaaaaat gaaggaggtc cttctatgac attagatacc taaaacacac tttcaaaactt
85081 tgcttatgta aaattacata taatgtgtag acaattccct acgatttaga aagagcccg
85141 tgagtgtcat ccttaccaaa catcctcatc aaagccttat tatgatgaaa tttttagaca
85201 ctagaaaaaa aatcagttca tattagagca ggaggagggtc tctagggaaa aaagggtagg
85261 agggaggatt ggtagattat ccaatatgct tgaccatttc caaaagtaat attgatatga
85321 tagatgtttg gcagttctga tgatgtattt ggctaaatac acagaaaatg aagcagaagg
85381 aaaatcaaag caattatgaa ctctggggaa acaaaaaagt tttacaaaaa aaaggaaaag
85441 cagtgcataa tacacagaaa attaggcaaa agaaactaag ataattatga agtctaggac
85501 aaacaaaaag ttacatgaga aaggatgcca taggctaata attgcttctg ctgtgaataa
85561 tatttacaca gtcaatgata atataaatac tgatgactaa ggtaagcaaa aattgtgact
85621 taactatttt ggggaaatgt gacgagaaac aaggggtgtt tgcactttat tagttaaatt
85681 attgcctacc attacagcaa ccaatatat aatgtctaaa actaatcaat taagaaagta
85741 agttattaat aaataatata gaggtaaaaat taggaaaaac acaaaagatt taaaagcagt
85801 taactggaga aaatatcaag gggtagggaa ggctgaggca aggggctgcc atttttattt
85861 aaaacatttt aacacaattt tttctttatt actataacaa aagttaaaat taaatataaa
85921 aataaaaagta atttaaatgt attctttttt ttttgacatg gagtcttgct ctgtcgcgca
85981 ggctggagtg cagtggcgca atcgtggctc actgcaacct ctgcttctctg ggttcaagcg
86041 agtctcgtgt ctcagcctcc ccggtagctg gaattatagg caccaccac cacacctggc
86101 taatatatat atatatatat ttatattttt agtggagaca gggttttacc atgttggtca
86161 ggctgggtct gaactttctga cctcaagtga tccaccacc tcggcctccc aaattgttaa
86221 gattacagggc gtgagccacc atgcccagcc caaatttttt aataaaaaatg cacttagaaa
86281 taaaatttaa aatattttaa tgaaattccc aggtgattgt atgtttggac atcagaagct
86341 gacctatgtt tcacagagcc agaaatttat ataactctga agcaagagaa gggcattctt
86401 taaaaaaaaa aaaaaaaaaa acaaaattac aaattcaaaa ttaggtacaa aagcgagttt
86461 cttttatttt agaattgtga aaagatcaca acaaaattact ggggtcttgg ggaggggtga
86521 gtccattttt tacagtatct ctttaggtca ttgaccagac gtgcttacag aaatgtttgc
86581 tgattgcaac ctggcttctt cttcccacc caaagctctt ataagtgaag ggccttgagc
86641 tgaattctca ctggcttcat ggtaaatgtc ttctgggcac tatgagataa aacattacac
86701 atttcagctt gtgtgtacac agaaataagc tggactacaa ttacctgat cctcctgggg
86761 gaagcagctg gataggaaaag aaaacacaga agactagaac ctgggcttct atccaagctt
86821 tgctgccttg agcatgtcac ctgagttctc aggggctcat ctcttttctc tgtaaaatga
86881 ggaacttttag aagataatct ctacattaaa ttctaactct aaaattgctt tttatgaaca
86941 actacactaa aaataaaaaa aaatttttaa ataaactttt ctactcactt tagagtgtag
87001 cctgggtaga gttatgaaaa caaaataata gcaaaaagag aactttttatt tatttagctc
87061 cttcacataa tcaatcccga actcttataa aataactaaa aattctctgg cctcaaaaata
87121 taagtaagag caaatgaaat acattaaagc ctcaaattaa tttaatttgc ttctgggtgc
87181 aatacagatt ggaaacttca acacgacca tctttctcat cttttgatcc ccagcagagt
87241 cttgcccaca gtcaaagctc agtcaatgac tatcatgaga attgaatgat tagagtgtt
87301 aaaccatttt ttaaggcact atattgatat aatttattta caaatactga actgaactaa
87361 actagggtct catcacaac atccctaact gccctcaata gtttaaggaat catctaacc
87421 acagcctttt tccagattgc tctcaaaaat tctgagctaa taagcaccat aactgaacca

```

FIGURE 1 (continued)

87481 ctcactgtgc aggcactgtc aagtaaccat ctgttcaagt attcacctca aagtattcat
 87541 ctttcgtgcc agctctaatt tcccagtatt ccataaaciaa gttattattc atactattcc
 87601 tatccttcat aaaactcaac atagtgcac tcagtcctca tttttccagg ccagaacca
 87661 atctcttttc actctgtata tgaaagcccc tctcttccca ccttcatttt agtagctctt
 87721 ttatgaatct tctttctcgt ttcagccaat acacacacat ttcatagtaa aagagtaa
 87781 ctattggatt tttcatcagg aaaagaatag aatacacatg cagttttagt tctgctgc
 87841 cttgcatctg gttggcacac taggttatgt cttacagaat aataataaat aggtagcatt
 87901 cactaagcag actagactct gctctaggca taatacatgt attgattcct ttaattttgc
 87961 aataaaccta ttaggtagaa actattgtta tttccacttt gcagatgaag aaactgaagc
 88021 actaagaaat gaagtaacct ctccaagggtc atatagcttc taaaccgtgg acttgaaatt
 88081 tgaatccagg tagtctgggt ccagaacctc tccaagtgtc cttttcccaa ctgctgctca
 88141 cgctgtaaat gaggctctcc tctaccaccc tccaagtgtc cttttcccaa ctgctgctca
 88201 tttttctgtc cattctatca gatacagaaa ctctccccgc agaacagttt acttaacttg
 88261 ggactttatt gccagattg gcttttgtgt gtacgtttta tgcaaatgta cacagtgtat
 88321 gttttatgca aacatatata gtgcccctctc ttttagctca ttaaaaaaaaa aaacccagcc
 88381 acagctccat tcccaggata cccactgttt acacatctcc acccagataa atgccagttt
 88441 gatgtagaag cttaaatttga tgaggaatgc aacttgtaat tgctggagat ggaacacaga
 88501 ctgtggatta cctcactctc atccctgccc cactcctat gctatatatc cggagtttct
 88561 ccagccataa aaatctccag ttaattgggc aatggatttc ttgacaaggc aatcaagatt
 88621 atgtccctgg tgcagataat cagaaagtct acccattata aaccagcaga agcaatcttg
 88681 tcttttgatg taagcttact tcgggtgttt tttatttccc ccaaacagca ctctaaaga
 88741 cccacctat gaaaccaata ccattatcac aagtgaagaa aggggtgaaa gctagaatgt
 88801 tctaaatgat taacaaggag aatattggatg tacacagatt ttaatgacac ctgattctac
 88861 ttccaaataa gcaactaaaa aacattccac cgtttgctta atgacgaaga tataagtta
 88921 tagctctcta ttgcaaccac tactggcaac acctccgtag tagtctattt tagtcaagg
 88981 tttttggcta taaggaacag aaaccttat gtcaaaaaaa gaggtggtag ggttgaggtt
 89041 tgctgtaaga tcaaagaagt catttcatgg acaacgacaa gcaggaaata agagtataga
 89101 ctggcctttc agagtctaga gctgagaaac caccaggcac cagtcattgt ccccatctgt
 89161 ctttctgggt ccattgctat tcttactca ctgctgctt tgctttctca caacctcagc ttgctatgt
 89221 aaccagcttt cctgcttat tgatggtttc tgctttctca caacctcagc ttgctatgt
 89281 agcatgaact gactctgtaa gaggatcaca cccaccaaca actgactatg tcttttagct
 89341 ctctatatctc ttttgettaa attttcaagc aagataacct ggttggtcac tggccaggtt
 89401 gatggactgc ctgtgtcagg ttcaagtgtc caccactggt ccaaacatct gaactgaggg
 89461 tcacatggta gaaacacac catccaagcc caagggtttg gcagggtctg gggtaagggtg
 89521 atttcccaaa caagaaggta tcaacagaa agggattcaa aaatatcata tttttgaact
 89581 ataattacta tgaagtacgt aaccatcaga aggaacctgc cacttaattt agttctatag
 89641 tcaactacaa gattaatgat ggaaagtgtt ccaaacttca ctgatctcat taaatctggg
 89701 tactcactga agagttattt gagatataaa tgtagaacta gttgtcagaa aatacttacc
 89761 tgtgcataga aaaataaagg cactccagtt aggtacaga acagcactat cgagtctgaa
 89821 tgctcacaat aggtccacat cacttgctat agctcttttg gattaaacac atctaaaaat
 89881 caagggggaa aaataattgg tgttcatttt aatgtctgta tcaatggcgc taaggattca
 89941 taggagaaaa gggcttgctc tctcttccac tgaggctacc ccaatcatat aaaggcaagt cgggcaggtg
 90001 cccaccttcc tctcttacac tgaggctacc ccaatcatat aaaggcaagt cgggcaggtg
 90061 gactgctctt aagaagccaa accaaggaca aagggtctct ggggcccagg acaatctggc
 90121 atatttttca ccagaatagt cagaggctgt ctggccagaa gagaatctga actctagtca
 90181 aaaaggaagc aaatatcatt gccagagaaa ctatgtaaac caccatcaag agtgaggggt
 90241 gaggcaaggc tgtaaacagg aaagtgaagc agctcccagg tcagcagcca ggaggctcag
 90301 tggacagaat aatactgagt gtgaagttagg tcacggcaaa cagctctgaa gcgaggctcat
 90361 gaacgttgtg gtgggtgtggg aagccctttt tatgtggggc ctggcatggc aaagtcaccg
 90421 tgcagaatca gacccccccc atgcttaggc taccatctt ccccaaacag ccgggtgagg
 90481 cagggtctgc cttatgggtt tgctgtgtga gaggtgctg tggcctggg cattctgtga
 90541 tggctcgtct cccgtggccc aggtgcccgg gctggctcca tggcttcaag gatccaagct
 90601 ttctgtttct atgtaccaga atgagagagg tgggtgcca gcgggacccc agtgtgtaag
 90661 ttagggatga gcatggatcg agggagctag aagcaggagg taggattctc aagtctact

FIGURE 1 (continued)

$$\frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

FIGURE 1 (continued)

93961 gaaagcctct caagttaagt gttccttcag cttgcaaact ctctctctga aagcaataga
 94021 aagccccaga gggagaggaa atacccttac caacagcaga agtttagcagg gggaggctga
 94081 cttttctaac ttttagattcc ggctctctca tccccagct gtttggtatt gggcaaatca
 94141 cttaacccttt caaagtctca gatttctagt cagtagagta aaaatactaa caactagctg
 94201 actccaaaca actagttggg aggaatacta acaagcaaca atttgcaata gcatgaaata
 94261 cctgcgtgaa gctgcgagga ccatgcctga tgcagacgag gcaggagctc aatcaatgct
 94321 ggaacatcaa tagcaaatct cagcttccgt ctggaagctg gcagcagcag cagcagccag
 94381 atggcctctc ttggaagctg tacactgaag cctgtacttt ccaagttcaa ctggccccta
 94441 cttttgaaga tctctcttgg ataccaggaa tggagcttta tggacgatct cacaactagc
 94501 aattcacaat gagtaagctg tcatgtgtac tcttgtagat tcttggcgtt ggggaggggg
 94561 tgcfacagag gccatgagat gctgggagag ggcacccaag aggtaaagat tggcatgtga
 94621 ttctctatca tctatcatcg cctcgggaag gtttacactt caaggctgac actattaagt
 94681 cttcagcatc agaaagtact gtatgcagta accacaaaagt aaccagaaaag gggctggctt
 94741 ctagatactt ttacatttgg ttaaaataat cccagtcagg gcaccagggt agtctcttca
 94801 agcgcagggc tgaagctaag ccaggttcat cccatgttcc acgcacaggg gcacgtgccc
 94861 cattagtcag tttttctctt actcctcagg ctgccccca gccctctctg cctgcgcaca
 94921 cctcctcag gaagcaaaact ctatttcaaa tgtttactca tttcctgttg cctcacatc
 94981 aaatcctgag gtgtgcttcc tcaactactgt ccttgagtct aagcaatcta ggtcaatgta
 95041 caactctctc aaggaacaaa ctcacatttt ataggagcct cgttgaatca gaatgactta
 95101 acctgaagag gtgattctaa gaatagaatc caagcccat agctggatga tagaaagata
 95161 tttgaaagat atcactttga gcacctcaa atcaggccac actgggcaaa gttaggccta
 95221 gtctggttcg acaaatggtc agtccctgaca aatttcatca gatctgattt tctcttggg
 95281 tataaatcta gtgccataca gttaactcca catttaactt gttaatcaca gagagctttt
 95341 tctggtcaca aatgggtgac ttgtagcatt tcccagggtt gagcaagtgc tctgaagct
 95401 ctgccctgtc tagacacgta tctgaaatat ctaattaccc ctgtacattc tgtagagcac
 95461 acaaagccca acgtcattac ataaacatga agtcccatat taatatattt gctcagtga
 95521 ctgtcctttt acatttgcca atctgaacgt gaaatcatgc tactgctgag aataaggata
 95581 ctatatgtg aataagaagt tccaagttgt gctatgatcc aaattatgaa agttaaatga
 95641 tctagagagc aaacccaaaa agctgtgtag tgaactgaat ccaaatcag aagaatctaa
 95701 atagcttgat gcataccctc tcttaaatga cacatttaaa tagtttccct ttcacacaga
 95761 gcaagaaaact ttaagaaaaga gatgaatccg tccacctccc tccctgtcag cgggtccctt
 95821 attagggtggg tatccagacc agcccagggtc attagtcagt tgcactgggg gtggggcatg
 95881 gagggaaacag ggctgatagc cctggaccat ctactatgca ccacatacag tattttatcc
 95941 atttacctct tccaactacc tagtggggaa aattggaaaa tcattctcca cattgaacag
 96001 ataaggaaac taagcctcag agaaattgaa tgggtccaggg cccagaacta ataaaaaaaa
 96061 tgaagccaga ctataaagtt agggcctttt cacactaatt gtcttcagac agatgcttac
 96121 aagagttagt taaactcctt tttcgagggg gagcacctgg cagcagcatg gtaccataac
 96181 atgccccctc cacactctat ccggcatctg aaaatgtgat accacagagc agcctagtaa
 96241 ggggagcccc tctcaactca taaatctgag gcaagtgtat aaacaagaat cctcaccag
 96301 tgggtggcgg ctgccctctg tgtctcccaa acctggggca tcaggctgtg ccatcccagt
 96361 acctctgca tctactttcc ctgctggatg taagctcctc gggctggcac caggtcctcc
 96421 tcatctctgt gttcccatc ctagcacaga gccttggtat aagatgcaca catggcaaag
 96481 ctttggtgac tacatgatgc tttctttggg tgctcctcca cctctgcag tgacatcgca
 96541 cccctaaaaa ctcagtgtc ttagtctgtc ccttactga ccagtggctc taggccatgg
 96601 cccatcctag gcccaactcc tcttctctcc ccgatgtctt gttccttcca gagcgcgcac
 96661 tccccacatg actttgtatg acaatggttt aagcaattaa tgaacctttg tttatgattt
 96721 gggcacagca gatagcaatg ctttaactcc tggagagctc cccaatgtga gaaacctcag
 96781 atcccagcaa gggcagacag acagacaaac tgggtgaaag gaagggtgct gaaagtattc
 96841 tccatatcac cctgtatagg caatgactca cccacacctac aggcagaggc gaagtaacga
 96901 agacacctct tcccagactt catgtccact caccatggaa aaaatgtctc agatttgcaa
 96961 aaatgcccac gcgtaataaa aagcctgcac tctgggccta ctgctgtgat attcactaca
 97021 agtctgacat agaggtttaa tttggtctgc tgtgaaaata gaactgaata ataactacag
 97081 tctttgattg tggttagggt taattataga aacctattca agtacatata tattaataga
 97141 aagcctcaca aacatggcag aaaaccattt ctgttcataa gtatttacag ggaaagctct

FIGURE 1 (continued)

97201 ccttatttac tttattttaa taaatatttc aaatcagcaa accaaaaaag agcccccatc
 97261 tttcatgtga acattttcta atcatgtcat gttaatatatt tctcctttga tttccaatga
 97321 gctagcacia gctctggcct ctgcactaga tgggtggtgct gagtcactta tttagaatgg
 97381 aattatggat tatataaaga ctgacgagta caatagatgt tcaatgtggg ggttgctcga
 97441 aacatcacct aattaaatat gctaaaaatat tttggctgaa aatttgtttt aaatcttcaa
 97501 attttttatac cttctgattt tctttgttgt tgttggtgtt gagacagggg cgcactctgt
 97561 caccagggct ggagtgcagt ggctcaatct tggctcacta caatctccac ctgctgggct
 97621 caagttattc tcccacctag cctcccaagt agctgggact acagatacgc accaccatgc
 97681 cgggctaatt ttttaatttt tttgtagaga tgaggttttg ccatgttgcc caagctgggc
 97741 ttgaactcct gagctcaagc aatcctccca cctcagcctc tccaaagtgc tgggattaca
 97801 ggcgtgagcc actgcgcccg gcaacttctg attttgtaat atagaaataa ctgtcttggc
 97861 caggcatggg ggctcaagcc tgtgatccca gcactttggg aggcgagga ggggtggatca
 97921 cgaggtcagg agatcgagac catcctgggc aacatggtgc aactctgtgt ctactaaaaa
 97981 tacaaaactt agctgggcat ggtgacgtgt gcctgtaatc ccagctactc aggagtctga
 98041 ggcaggagaa tcgcttgaac cagggagtcg gaggttgtag tgagccgaga tgggcccactg
 98101 cactccaacc tgggtgacaga gtgagactct gtctcaaaaa aaaataaata aataactgtc
 98161 tttggaagtc agacaaaata atgagcagcc tttatttctt tttaatctaa tttcaaatca
 98221 atgttttaac tccaagtagg cagggcaaaa acacaatttc tctcaaatcg ggtaataaga
 98281 attaatgtaa ggggtgtagg tcgaaatata aggagcataa aaatgaaaac acagagatat
 98341 ggactcagaa ttgtacttcc ctttgctaga cataaatttc actcctataa ttatcatttt
 98401 taatgtccaa aatcttcccc acataggcta tacttctttt tttttttttt ttttttgaga
 98461 tggaaatctt ctatcgccag gctggagtgc agtgggtcga tctcggtcca ctacaacctc
 98521 cccctcccgg gttcaaccat tctcctacct cagcatccca agtagctggg actataggca
 98581 cgcaccattg cgtccagcta atttttgtat ttttagtaga gacggggttt caccatgttg
 98641 gccaggatgg tctcgatctc ctcacctcgc aatctgcctg cctctgcctc ccaaagtgtc
 98701 gggattacag gtgtgagcca ctgcactcgg cctggctata ctttttaaat gtccaaacaa
 98761 ttaattaact taatctagtt ttttttatte gtaaaatgca tttcttaact gaattcaaca
 98821 gttaattaag ccagggtgact tcttcatgac tgaccctgta aaatcaattt tgcatttata
 98881 aattaccatg aacctattaa tgcacagtat aattactgta ttataactaa cttctacact
 98941 aaaacttgca atatggactg tgaagccagt ggagaggaaa atcttttagac gtagttaatt
 99001 gaataaatat ataaatttga agattcatta gggattttaa catctcgttt caaaactgaa
 99061 gccatcacat actattatct taattttatt caacctatag ttcataattt agtgctaaat
 99121 attaaaatgt tgtaatatag gctgattata tcatcttcat gtaaaatgaa acaccagact
 99181 ttgctgtcat acacactgga caatagggtga aaaaactcca acagcagagt aaaccaacaa
 99241 cattcctaaa cgatctaaag attctcacag cctccaaatt tgcagatata gaaacttaca
 99301 tataggccct cagttcttcc acaagctcca ccacctctct accagcactt gtaccagtg
 99361 ccccaccate cctcatgtca ctaaacggac tccctgtgct cctcttgatg gctgtcccct
 99421 ctacctgcac acaagagacc accttgtctt gcctactcaa ggctcatcgt ttggcaatct
 99481 cccactctc ttttgcgtca ctgcttctcc cctctctact ggatttttcc catgagtata
 99541 caaaaagctg ctattctcca atattaagga aaagccctct tttgatcccg ttcctctctc
 99601 tgcccaccac tgcatttctc ttactttctt tacaataaaa tttcttaaaa taattgggtc
 99661 tactatcacc aaatccctct cctctatttg tctcttaaac tcaacccaaa cagggtttag
 99721 tccaccactc cgttaaaact gctcttgtct atcacacca tgcctgtcac atttctacag
 99781 cagctgttca ttctcagtct ccatcttact ggacctctca gcactgtata acacagctga
 99841 acactcttca tctggcaaca cctggataga gcatattata catttcataa ctcagcccta
 99901 tttgtcaatg taactttcta ctttgattta tccagcaatt tcattttttg gccagaact
 99961 gcaactttct caaaccattt tcccctttct tcattgtctt caccacacta gcatgtggcc
 100021 tgtttagagc tacttctcag aacaaaataa agtatctaaa acacagtgat cattactgtg
 100081 aaaatgggtga ggcatagaga atgaagcttc actgtcatgc ggacgccatg tctcctttcc
 100141 actagtacat gtgcactcta caccaagaca tcagtggtac ctaatgtatc ttactcccag
 100201 gatcctatga gcacaatgtc acaatatatt ggactaacat ggtgcctgtg gtgaaacctt
 100261 gcagacaaaa tggtaacaca gagccaaaaa gaagatagag gcctaaaagc aaggcaatga
 100321 agttattctg ctgcccctat gaggtacaag caaactgttt attctctgct tatgtgcctt
 100381 tagtaaaaaa agcatttggg ctgggtgcgg tagctcacgc ctgtaatccc agcaatttgg

FIGURE 1 (continued)

100441	gaagccgagg	cgggcggatc	acaagggtcag	aagattgaaa	ccatcctggc	caacatgggtg
100501	aaacccccctc	tctactaaaa	atacaaaaat	tagctggagc	atgggtgggtgc	atgcctataa
100561	tcccagctac	ttgggaggct	gaggcaggag	aatcgcttga	accagggagt	cggaggttgc
100621	agtgaagctga	gatcatgcca	ctgcactcca	tcctggcgac	agagagagac	tctgtctcaa
100681	aaaaaaaaaaa	aatccatttg	ccagatagat	acatgcatac	caaagatcaa	ggcatgtatt
100741	gagttactag	aaactttatc	ctgaagagga	cacatgttcc	agtaatctct	ccatatttcc
100801	atttccccaa	ttactctagt	aagtacactc	tttcaaaggg	ccggatctag	caagttcttg
100861	accttagttc	catgtaaggg	atgttgggct	tatgaactga	cctgtctggg	aacaatcgga
100921	tgggggctat	gatttcctat	tgtaatagct	taaatcaagc	ctccatttgc	cagaagaccc
100981	agagtttttt	gggtgtaaaa	atcagggtggc	atagctaagc	acctatgcat	ttcagtcaca
101041	ggaatcccat	tatcagtagc	cattcccaaa	gattcctggg	catcctgatt	aaatacccat
101101	cctgctgcct	attatggaag	ccatgctgcc	tacccacctt	gctttctgat	ggtaagggtgc
101161	tgetgcttaa	gctctattac	cccaggatcc	taatatecct	agtaagatta	gggagtccca
101221	tttcaacggg	accatacttc	acaagcatca	gagggtctaca	gagaacagcc	aaattttttt
101281	tttccaatga	agccagttgg	tccctcctca	ctgtatctct	taggctcttg	ttgaagagca
101341	tctcatcagg	accctctcaa	ggaaaacaat	tggaaatacag	ctctccatac	ccatgatata
101401	tcccccccaa	caatattatc	tccctaagtg	cttggacttc	ttgctcttat	agtagtacgt
101461	gacagaattt	ctagcagctc	attggtgcc	cagtcgccagt	tttggccaac	cagtcgaaga
101521	aacataaata	gatcaatgcc	atctatttat	gctagtacac	tgaattcaga	acctctgggt
101581	aagtgtctct	atagcaataa	attcaagcca	tctaaagtgg	tatttttctc	tatttgacct
101641	aaaactttca	aaatccatta	tcatacatat	tccccagaa	tattttccag	tatcaattgg
101701	gaaagtcttg	caacttttta	gcaccataag	ctatcacctc	ctacctttga	ctttgtcatt
101761	gggtgtctga	ggcattctgg	gatctaagtt	tagttacaca	tctgggagta	gggcagaagg
101821	agaactgacc	tacctttgta	atgcaactcc	ttcagatggc	agaaaattcc	atcaagacac
101881	gaatagcctc	atcagagaag	gtcacagggc	tgtcttaact	ggcaagggtg	gattgatgga
101941	cttttagggat	tgggggtgcc	ctgaattcac	caaatectac	catatccctc	gttctagttc
102001	ccagagtccc	actctttctc	taaataccca	aaccaaatac	caaaaataagg	gacctagctg
102061	tgaattcaaa	tgacatcctt	agttgacaac	ttgcattact	gcatttgggt	tttgactttt
102121	taacctgaa	agagttacaa	aataaatttg	taatatttat	atatagtaca	aaagagattc
102181	tttttagtgta	ctcgtagaaa	gtccctattt	ttcaatccat	ccttaggtaa	gaatatttag
102241	gaatctgagc	ttatattccc	tttctttaag	ctgtctgcc	ccgttacatg	cagccatcac
102301	accagcccag	tttttcaagt	cctcattcct	atgcaattgt	tgcatggaag	tcctgtcttg
102361	gttccccaaaa	ggttttcttt	caattagcaa	ctcattctag	aagttcacag	atgatttatt
102421	tgctaatttt	ccaccaaagt	ttatgggggtg	tcagtcttat	cccttatgca	gctggatttt
102481	tactacctt	cagctccaac	taaccagac	aaaccaatcc	cagcttcccc	caatttttct
102541	gtggttctat	ttcccggaac	cattctgggt	ttcaaactcc	ctatcaatct	aggttcttac
102601	ttgcaaataa	cagaaataac	aaaactaaga	ctggctgctt	taagcagaaa	ctgaattaat
102661	tgaacgatg	gtggatattc	ccacataatc	attgagaagg	ctatggaagg	tactggaaaa
102721	caatcaggaa	caacagtagg	ctacccaatc	acaacaaaaa	tcatgccaca	gaatttaagg
102781	ctgctccttc	cactggacca	ctcagctagc	tagctgagct	aactacacca	acatcagaag
102841	cagagacagg	atgcgactac	tggaaactgcc	accactgcc	cttcagtaaa	ctgatgtttc
102901	tatcatcact	gtacacattg	agtagaccat	cacccattct	ctgtagtctg	tccattagta
102961	ccgagtgggt	attcctgata	ggctaggtct	agcacatgtc	ctgtagccaa	ggtggctgtg
103021	atactgaata	gtggaacttc	ctagattcaa	tgatgagagg	caagctctga	atcctgctaa
103081	gattcacaaa	ctggggaact	tcccaaaca	gggaagagaa	atcatatgta	aggcaaccag
103141	gaaaaaaaaa	aagacaaata	ccctgtagg	tatcttcttg	gtattttggg	gaagcatcat
103201	tacagaaaaa	gaagatgaat	ttttatgtga	gccaaagtgg	gaaaattttc	atgctaaggg
103261	aaaaacagaa	tgttgcaaaa	gtttcattta	tttgtaggtg	ttttgcatct	atggcagtta
103321	gtgatatttt	atagtgaata	aaaagaaagc	aagtaaagag	aaaagactcc	cttgagtttc
103381	accatgcaaa	ttagagaatc	tggaaataat	actcttgatc	cctcattctt	ttttctgccc
103441	tcaataaggc	tgattcagaa	aaagtattta	taatatctgt	taggatttcc	caagaatatt
103501	ttaaaattct	acaaggactg	acaagagaac	atttgctacc	aattagaatg	gatttgagca
103561	tcaaaagaaca	gaaaaattct	tataataacc	tgatttcaca	cttcccgtta	agcatgttta
103621	gagtacatta	tagcaaagca	tgttaaagca	atctgcccct	caaaaagtgc	aactaagagg

FIGURE 1 (continued)

103681 agagccaatg gagcaacact ggagaaccag aaattcaatt ctaggagaat gacaggagat
 103741 atgtgagtggt tcagaggaat tagtgagtac tcagtgtatt tagacgcttt gccattggtg
 103801 agggagcaggg aagttctttc tccttggtta aaaagaggat ctggaagcta tagaaacaca
 103861 cggcgatttc tcactttaag caggtatgta gtcttctctc ttgtacaat cttcagagta
 103921 ttatataagt attttaattt atccatttgt taacatttgg atatatgcat ccatttcact
 103981 gtgtgtgttt tgacaacatc tagaagacaa ataacttaac aaaatgtgct tagatgggccc
 104041 ataaggaaga gtgaaaaaga agaaagggga aaagaaggta ataacaagga ggcaaacagg
 104101 gaaccaaaga gactatacta ttttccattt tcatgcacat gtgggtgctg gtgtgggtgc
 104161 atgtgtgtgt gcgcgtgtgt gtgtgcatgt gtgtgtgtgg tgggggtggg ttttgccatg
 104221 caaatttgct ccatttcaat agaaacttta aacttcaaaa ttcctttttt tcttattgct
 104281 aagtataaaa gctaataact atttaagacc cagtgtttaa tattaagaaa aatataaagg
 104341 tatacattta gatttgaat gtagtctatg atatcgga tatatcatga aatcagaagt
 104401 aatactaaaa gcaataaaaag aaaacaaaga gaaaaaagag caaatggctt ttacatagag
 104461 gttaaaaaatt tactgaattc tcttggttcc caactaacac caaagaccaa agttcaccat
 104521 tttgcttttt tctgaggcta cagagatagt ggctattgcc aaagctagaa ggcctgtggg
 104581 gagtccagag gaatttaaga gaaatgactg agcactggag gtgatgaagc agaagcagca
 104641 ttttccctgt tctctgact accttttttt tcaagcgttt ttaacatggc tctgttaggt
 104701 cttctttgca agcccttgcc agcaagtga aagcaatcta ggaaaccaca agcttgggtc
 104761 gtaattgaaa caaacaattt tagttcaagg cgataaaaagc agtaacaacg aaaatggatt
 104821 cgaagtgggt atacaaaact ccacaattat gtttctttaa aaggctacag tcaggaacta
 104881 catacaatat attttgtata ggaactctgc aacacaagtg aatatgctag ggtttctcat
 104941 gagtccctgt actctcagaa acctctgtc ttccaaagag ttctttggat tctaccataa
 105001 agtatacagc agtatatgga gagcattttt actgtttaaa atcacaatg caaataagaa
 105061 catactgtaa aggggtgagt atccagtagc acactctgga tacccaaaaa tgtacaacag
 105121 ggaagaacgg ggactatttt ttcataataa ttcttaacaa tctgtaaaag gaaaaaatg
 105181 aaagcccaca aataagcaga gtaacttagt tataaaagtt tagtcatttc aaattcatct
 105241 caaaacaaca aatatagtat tttattccca ctagactgta agtctcattt gtacaagagc
 105301 caagtttgct tttgtattat tgtaatccta gcacctaaac gggtagccag caaagagaag
 105361 atgctcagta aatatttggt gatgaaataa ataaatactt aacgtgtaaa acaataatta
 105421 aatgaatact tgtgttaacc ccatgtatgt acataacata cactaaaaca cgcttaggac
 105481 cccaaataat gtcaattaac agggagaggg tgaaagggtg gaaaagagga gagatgaaag
 105541 cataaaatag acagagaatt gtcacttaat ctctggaaat tctgtgaagc agttatccat
 105601 tgttcattgac accttgaaaa ttctcatctt taacctatta gaatttcttc aactggaata
 105661 gccacagcag cctccagaga catcattttc tctgggcata attagtggc tctccttgcc
 105721 tccattatcc tgataacatt caatgaggtc tcatctggct gcattatgtt tgggacctgt
 105781 ggtaattgtc cagaatcaga aagccttaca catgaaccat ctaattcaac ctcttattt
 105841 cactgatgag taatttccca gaggttctga gtgccttgcc ccgggtcgca gcggaagaa
 105901 aacttctttt gttccacaga gttctgggtt acgtgataaa agaagaactt cagctgaatt
 105961 aaattttaaag gagtttgagc aatgaataat tgcggaattg ggcagccccc agaatacag
 106021 cagatttcaca aagactccag tgcaaccacg tggtagaaga agatttacag acaaaaaaaa
 106081 aaaaaaaatg gaaatgacat acagaaattg gaaggagagt acagaactgc cggttgggtt
 106141 caggtcagtg tatatgcctt atttgaacat cgtttgaaca ttgagcagtg tatgaaagg
 106201 tgaaatctgg cctctggcca ctgggattgg ccaagacttg gctattgtta caggtgcata
 106261 ctactaaatt aggttttcaa tctcatctgc ctttaagcta gggtacagtt caccacaagc
 106321 actcaaatat aaaagtacag agtcccttctc aggccatatt tagtttgctt taacatactg
 106381 caaagaatac taacttatac atcccaaaaag gctcatggac agaaatgatt tgttactgaa
 106441 tataaagatc tattagacac ctggaaatct ttggagacaa agatgcttca aatagccata
 106501 gaagggaatg cataaggaag ctaaacacatt acaaatacaa aatttttcta tgcctaattc
 106561 aaactgaaaa aaaaaatggt tttttaattc ctgtcattct ccagagagag gaaagcaaaa
 106621 attgttctct acatctgagc tgtgtgtgca gcatattacc caccactaga gcacaaaagc
 106681 aaagttcagg cctcattttt agaatacaaa tgggtggctg gtgaccgtca atttcaccaa
 106741 tgggtataaaa cacacgactt cctggatgc ctgtcatttg cctctcatcg catagtaacc
 106801 agctgtataa gtaagcaaaa aaatcctcga aactgtttat tgactataat taacagggtt
 106861 tatgggtattt gaaagcaaat aagcactatg acaaatataa taaaatatga tgcataaaaa

FIGURE 1 (continued)

106921 tgatgtaaaa cegacttgat gttctgactt tccagtgaag gtcgttttcc tggtttacct
 106981 gatgaaatgt ttcagagggt cattgcatga actatgagtc atagcttcaa gtctctgggt
 107041 gccactttac catttacatg atttaaggcc aaaatctgct ctccttccca tgcataaaca
 107101 aaaccgcgca agactataac gtaagcctca ctacccatct cctagagctt tgcagcaacc
 107161 agcaaacgta aaaacggaaa acaccagagc tctaaacaga ttaccagctt gctgtgtaaa
 107221 tttacagcag tctataagcc ttcataatat tagtaatat tataaaatta ttgagcagtc
 107281 cttgattata gtgtattata gaaatgcaaa ttgagtcac aagaatagga tgtgggttgg
 107341 gactcttgaa atcaaccttc attttttgac ctgacatttg atattttgct ataaagcctc
 107401 cagtttgaac gttctacttg tcaagagtta atgaaactga aatgagtcac agatactatc
 107461 tatgactcat attattataa tatcacaatt atataatact gcaagtattc atggtgcaaa
 107521 aaagaatgcc ataggacaaa agaccttccc tgtagatcca gtcacacaa tgaataaagc
 107581 cctaagcatg cttgctaatt ttaatgggac cgaagagtct taacgcaagt tccccctc
 107641 ccacccctgt tttttattta attattttta acctgcttct ggtccaagaa accatttctc
 107701 agcctggagt gctaggcatt tactaatggc ctttccagca gggctgacat acatgagtgg
 107761 ctgtctccag ctcactcaca gacttggggg cggctcttag cagcctgttt ctacctgagg
 107821 gtctttgtat ttaactgaat tctttagtga cagggatctg cagaataaag aatgctgcat
 107881 ggggtaggaa tgcacacacg tgttttcagc tgcttcatac tcaggcctgc tgtgactcag
 107941 cttacaagat caaagttata aactcatttt tcatttctta ggggaaaatg tctcagtaaa
 108001 agtacgaaaa cctgaaacct ttttcaagg aagatacaaa acaaactttc aaagtttttt
 108061 tgtttgtttt gttttgtttg tctgttttgc taagtagtgg tcagtatcac aagatgacat
 108121 ccatgaagct ccactgggga ctctaactat atatataagt tgattcctat ggcaaaagtgt
 108181 ataaactcac tgggtattgt cattgtgttc atccaccatc attgagcata tctctaaaac
 108241 aatgttgtac tataattttt tcccaggagt tttagagaga aaataaaaatt cctctaattgg
 108301 agacagtttc ttgacacaat tgttcagtc cgaagcact tcattattag gtggtagcca
 108361 tacatttgaa tcaataaatt cctattcaga ctctgccttc agagaaaatc ctgtagcagt
 108421 ataattaatc ctttgcacct gaggttaaaa atgtggccga ataataacat catttttagg
 108481 cactggcaga gcagaattaa gttcaataaa aagtgggaaa gataaaagga aaaaaaggaa
 108541 gatccaacat atgaagtggc tgctatttta tttcaacatt gcttatatgt ttaggaaaac
 108601 attttaaaga tgagttaga agaatgaaat gatgtatcac aagaagtttg tttccttctt
 108661 acggtttcaa aactgaaatt gtttagaaaa atgaaaaatg agtttttaag tgttgagagt
 108721 aattctagaa aatatttgtg cacacaaagc ctgactagac ctattccaaa tgatgttctt
 108781 atctggagtt tcccagctag gttaatgcgg gcattaccaa atcctgaggt acctaaaagg
 108841 agttgtcaga gaaaagataa aacaaaaata aaagatggag aaacaaataa tatagagtgt
 108901 tttctgatca gaaataagcc tgccaactac ccattagaga ctggttaata cttgtgagtc
 108961 tcaaattgcc tgaatttatt ctggagcttc tagatatac tggggaaaatt gagacaatgt
 109021 acttctttct tttgtaaaa aaacagtagg tgttacccaa ataagtggga acatcaagtc
 109081 tggctctttat ttctgaggtt gcctgcaagt tgctacatcc ataacaaaag tgcctttgca
 109141 gtttactctt cagcatatat tatttcataa gcaaggtaact caaattgaat ctgagcttca
 109201 aaacttagta tcaatcacat ttttcaacct tccagtttag ttttggtag actggaaaat
 109261 tctgcaatgc taaggaagtg tgccaacct aaattaaaat aacatctgaa tgtaccctac
 109321 atagtttata agcctacaaa ggacctaacg tcatgaggtt tatgagtaac aaaccttggg
 109381 gacagtaatt ttcttagct gaaactctct atcacttaaa atattctgtc agacaccag
 109441 ttacactttg agatttctca tcaggctttt agtattttta aaactcaatt tctgaaattt
 109501 cgcctatagg ctcgatcctt ccaaacacac ctccctctcg aaatttcatg ctcatcacag
 109561 ctgaatgect gcgactgtcc cgaacacttc cctcgcctac aggaaaatgc attaaactcc
 109621 agctgcccgg ccgagtgtgc catgtccgta tcaattagge ttgagcattt aaaacggctg
 109681 ttctgaggtt gattaatgac tgcaaatgag aagaccttcc gtttcccggg gacaggtcac
 109741 cccagacctt gtgttatcgc caccagtcaa ggcacctgct tgaaccagge tgccatgcat
 109801 cccctttcca gccattttat cagtcaaaac ttgtgtttta attgcccag atttgtttta tgggtctcaa
 109861 tgagacacga ggggagagac caaagtagtt tcaaattcag aagctgggac aaatgagcat
 109921 gaactcatga gaacttctgc agtatctaga tacacaatgt tcaaaagcac ttttcagcac
 109981 ctccaccatg gatgaggagc tgaaaaaaa aaacttagcc aagaggattt tttgaatttg
 110041 tatgatttac aggcaagtac ttatagctgg catctcattg ttcaggaaaat tccaaggccg
 110101 taactaaagg taaacctgtt

FIGURE 1 (continued)

110161 gctgccatca aagggttgaga aaataaaatg atttaattca agttttcaaa ttgctgatgt
 110221 aaaatgggtat cattccattt ctcattccaca tataagtggag ctgaacaatc atcaggcagt
 110281 tatagtcaaa agaaactttt cagaacaaag ctgtcattaa gagatataaa aacattttatc
 110341 caaagaagac ataacaatgg ccaacagcta tgtgaaaaag tgcataaaat cactaattat
 110401 tagagaaatg caaatcaaaa ccacaatgag atatcacctc atgacctgtta gtataactgt
 110461 tatcaaaaag acgagataac aagtattgat gagggcatgg agaaaagaga aactttctac
 110521 attcttagtg gaaatgtaga ttggtacagc cattgtggaa aacagtatga aggatcctaa
 110581 aggaattaaa aatagaacta ctgatacagt ggctgctgcc atcatgtcag ctgcagcagg
 110641 gaggcgtggc tggggctgca cactccatgg agccagtggg agccctgcct cttctgagtt
 110701 ggaaagagag ctacgtgcct ctgcagccac ccaaaactgca gctacagacc caggcctcct
 110761 gctctagtga gcaagcagga gcctcgccct cctgggtgag gctacaggcc acctaaacta
 110821 cagctgtgaa tccaagcctc ccttgtgtctc ttgggggagc caggaacagt caggatctgc
 110881 cctcctgggt gcagctggag ccacggcact ggtggctgca gatctggaac tcccagttgg
 110941 gaagcaggca ggagccgggg acaagcggga gccctgcctc ttccgagttg gccaggccgg
 111001 agctcctggc tgcagctgct gctgcccctc cacgtgcagg gcgtctctgc agcctgcacc
 111061 ctcgggcacc ccaggaaggt tccctgcccc tgtccctgaa ggctcagggg tgtctgctcc
 111121 cactgcctgg cctctctccg ctcccagtc cagctccaa tctcgagcg ggggtggggc
 111181 cgagccccag ggccatgaac ggcagcagga ggcagacaga gtccgggggtg gaagggggca
 111241 ggggtccccag taaggcccca ctttcaggcc gtccctggcc tgaacactgg gggccgggct
 111301 gccagtcttg tggacgggag aggagactca ttgtgctct tgggttgcc catggacca
 111361 ctggcatgca ctctgtcctc tctgaactcc ataaaagctc tgtactcagc cagagcaggg
 111421 cagaggatgg ctaaggacga agagggcaga gagaatggga gcagaccaca aggtgcagag
 111481 aagactaccc tgtctgtga tagctggaga cgatgggaag accagctgca gagaggagta
 111541 cctcactgct tgagagctgc agagatgacc tgccagtaga gaggagctac tcaactcctt
 111601 gagctgttct aacactaaat aaaactctgc ttcttcacc ttacttgtc tgtgtacctc
 111661 atttttctctg gatgcaggac aagaactcgg gcaaagggtg tggggccaca gaggtttccc
 111721 accagaaaaa tcgacacca agagatctcc taacactact gggttgggcc gtaactccag
 111781 cactctgaga agctgaggca ggaggattgc ttgaggccag gagttcgaga caggcctgcg
 111841 taacatagcg agacctcctc tctacaaaaa aaaaaaaaaa aaaaaaaaaa aaggctgcgt
 111901 ttggtgatgt gtgctgtag tcccagctac cctggagact gagatgggag gactacttga
 111961 gccaggagt ttgagctgta cagtgcagta tgattgcacc actgcattcc agcatgggat
 112021 acagagtgc actgtgcac actgtctctt aaaaaaaaaa aaaaagtcta atggaaatga
 112081 aatcaccact taacttcata aaggatcca catttccttg ttactgagc cattattcac
 112141 aatagtcaag atactgaaac aactgaaatg tctgttgat gatgaatgga tacagaaact
 112201 gtgatataca cacatcacaga gaaatattat tttagcctaa aaaaggagat cctgccattt
 112261 gccacacgaa tgaactatga tgacattatg ctaagtgaat taaaccagac acagaaagaa
 112321 aaatactgca ttatttcatt tatatatgga atctaaaaaa agaaaaacaa agttgaatac
 112381 atgaagatag aataaagtgg ttgtagcag ggggtgataga agtagttgtt accagggatg
 112441 tggtagact ggtaggagat ggggagatat acataaaagg atacaaagtt gcagacatgt
 112501 aagatgaaca agtctggagg tctaacatac aacatgagga ctatagttag taatactgcc
 112561 ttttatttga gattcttgca aaaagagtga attttacgtg ttctttccac acatacgcaa
 112621 agagggtaac tatgtgaaat gaatgtgtta atttgcttga ctataataac catttcacaa
 112681 tgtatatcaa aacatcatgt tgtatacttc aaatatatat aattttaaaa aagtggtttt
 112741 tttgggtggc aaaaaaaga gatacaaaaa caaaagccct gtggatgcat catctggggt
 112801 ttattccact tgacatatga gactctgcct tatggtaggg ctgaggtatc cacctctgtc
 112861 ccttctggcc ctgggcctgc caaacctaca cccagaagag acttgtgcta cctttccac
 112921 atcttttcta ccccatgaca tcaactggtat gttactcaga ttttggtgtt ttctaacagt
 112981 ctcaggacat agggaaaaaa tttaactta aagcttcaga acagccattc aaaaaattat
 113041 cacttaatag aatgaaaaca cacatgtacc atgaatagga gaggggaaggc attaaaaaaa
 113101 aaagacttct taagggtcaat ttccaaaag gtctatgttt aaatgttcta acaaaatcta
 113161 ctgcataagg acaaatagat attaaactgt tatattggga aaaatactgc atgacataga
 113221 atgtctgaaa tccaaaaata aattaatatc actacgctt gccctttaat caaaagtaag
 113281 ttagtcaactg gtatttaatg cacacaagaa tctagtataa catggacaca tgaaggggaa
 113341 tatcacactc tggggactgt ggtgggggtgg ggggagcggg gagggatagc attgggagat

FIGURE 1 (continued)

113401 atacctaagg ctagatgacg agttagtggg tgcagcgcac aagcatggca catgtataca
 113461 tatgtaacta acctgcacaa tgtgcacatg taccctaaaa cttaaagtat aataaaaaaa
 113521 aaaagaaaaa aaaagaatct agtataaaat tgctaccaa aaaaaaaa agaaaaatta
 113581 gagaaacttg agattgtact ggcagcttga aattttctag aattctaaat tttattttta
 113641 gtctctacct taatataaga tattttgccaa atgtccatag aattgaaggt tttgtactac
 113701 tcaactaaca tatataatgt ttgcttaact tgggtttgat gtagaccagt ggttcacaa
 113761 actagatcat aaccttagaa ggtgagacat acgcacgta agttcttaaa agttctccag
 113821 gtgattctca tctgcctggg ttgggaacca ctgacacaga ccaatgcttt ccaagacccc
 113881 accttggttag gaaaagaaaa cacaagtata gcagttaaga acccaggagt aactcagaag
 113941 aagtaagtta aacagatttt taaaattata gtgatgtaaa taagatacta acattggtgc
 114001 ccaaaagtaa aggtaggttg gaaatggtga aatgtgtgat gtaattggta gtttggggcc
 114061 tatcagggag acttcttggg aaagtcttaa ttataaactg aattataaag gtcaagagtc
 114121 agtaaatcac agaataaaga ggcaggcatt ttaaagatga ccccttcaaa taatctgagc
 114181 attcaagcca ccaagtaata atgactataa ttatcatgtg ttctatcttt attttatata
 114241 attatttaaa aaggaaagct atttcagact gggatttctt gtgcaaagtt tttttttttt
 114301 atttgggttt tttgtaactt atggaaaata tttcacccaa aaaggaatgg aaatctttat
 114361 ccagcctaag agtgagtggg agagaactaa gcaaacggaa acaaccaata gctcaaaagc
 114421 tgagtaccat aaacacctac acatttgact ggacacgatt tcagtcttct ttaagaggag
 114481 ggacttaaga gtcttaagag ttttcagctg gaataagatg tataaggata aattatgttt
 114541 attcacataa actgttttgc aatatgaaaa gacccaaaac acctgtaag ccagtggtggc
 114601 tcccactcca ggaactctag ctggtaatgt ttcttgacag agtaatttat cctaaatttc
 114661 acatcctgca agcataaggg tcaaagtatt caatctccaa gaacatttgt cccacctatt ctgataatac
 114721 gtagaaatgc ttcaagtttt caagatacca gaaatgactg agatggaatt tactctagct
 114781 tttactatcc ctttgttttt caagatacca gaaatgactg agatggaatt tactctagct
 114841 tacttcttat atttaaaaag atctcttgct ttgcatctta tctaggcaca tataaaaaatc
 114901 aatatgtgac ctactactac ccagacagag gttagcatca ttttctaagg ctcttgctc
 114961 ttcactgtac tttggtcttt tccatccctg cctgactcta caccactctc aggcattctc
 115021 tcccagacac tttttctact ctgcccgtcg cctctgccc ggaaccaaca aagcgttccc
 115081 tgtcggatca agtctgaac actcagcttg accctctcta atcagaagaa tctgcctctt
 115141 caactttatt tccaggttcc ccaacctttt cattctaat aagccaatat cccgattgcc
 115201 tcccatagaa atcatgttt cactcacata cctactcagt aaacacttat tgagtgccag
 115261 ctgagtgtca ggcctcgtgc tcatttctgg cccacactt ttgttctgct tggcctggct
 115321 caaatgccaa gtctccaca aagctctctt cagctgtgct gattccccac tcagcgtctt
 115381 tatectcggg attccccaca tcagcattcg caacctgaac tcacacagca cttttctaga
 115441 atactttcag acattctggt tcaaataaat ttggaaactc tggttcaaac tcagttggac
 115501 aggtttctct actatggaat tctcagaggc ttaataaagc taccatcagt tgtgaattcc
 115561 taagagggtt atataatatt cagaatttca caaaattcct tggccataaa aattttacag
 115621 tataattgct gaaatcccag gacaattctt tttgggaaat gttgcctact attatttaaa
 115681 attggtacca cacaatttat cacttaataa cattgtctggc tatatggtat catcctgtta
 115741 cttctctgtc ttctttctat acatctttgt ccttttcaaa tacccaaaat attaatgctt
 115801 ccttatgac taaaagtaaa gagtaaacca aaaaatactg tctcaacctt tggggaaagt
 115861 tttctaatat gtatttattt acctccctgc cttagtaagc agtacaaatca atggatcttt
 115921 gatggctgag acagggtgaa atggcaaaaa gacaacagca ccacttttga aaacgacttt
 115981 atgtagacca cctccctggc ctacgcgtoc tcatctgaac aagaaggga cttcccagtt
 116041 ctgacggtct atcgtaacag atctcagcgt tgtgattctt aaataagtat tcaactgtaca
 116101 atcctataaa ggtaagagct aaacaatcag atatcacccc cagaacattc ttcggaagtc
 116161 tctgtgctct gctttcttac taatataata atagcttggt ttcttatgat tttctcctt
 116221 cgaataaaaa caattcttat taatttaggt ttctgtcat ttggctttga gttaacacag
 116281 gctttacttg acagggaagg gaatgactcg gcaatcacag caacagccac acctgcagt
 116341 ctcttctggt tcccaagtgc agccagtaac tggtcagatg gagtcccaga gggcatgggc
 116401 cacagagaga ggaagtcac tgatgggagg gtgggcatga acccatggac atgaacccat
 116461 gaaaaacagc tgtcatgtgt ctccatatct agttatactt caggttctag tggatgaaca
 116521 accaaccaac caatttggtt tataatgtag ggtttcctaa gttacaaat cttaaatttc
 116581 ttaagcttcc agagcccact ggaaaaagat catcacaatt ctaagactct ggaaatgatg

113401
 113461
 113521
 113581
 113641
 113701
 113761
 113821
 113881
 113941
 114001
 114061
 114121
 114181
 114241
 114301
 114361
 114421
 114481
 114541
 114601
 114661
 114721
 114781
 114841
 114901
 114961
 115021
 115081
 115141
 115201
 115261
 115321
 115381
 115441
 115501
 115561
 115621
 115681
 115741
 115801
 115861
 115921
 115981
 116041
 116101
 116161
 116221
 116281
 116341
 116401
 116461
 116521
 116581

FIGURE 1 (continued)

116641 aatgtcaaaa caatctctat tccattattc caataaattt tgtgacattg atgtgatttt
116701 cacacaatgt ttaatgcaaa atgacaagca actcaaattt ccatattatt cttttaacca
116761 tctgtaaaaa atagataaat atgacatctg gtgaaagctc taatgaatga aaagtgcatt
116821 atttcctcct cacagcaggt gtgtgacttt gggcaagtta cttctctaag cctcagtttt
116881 ctcactctgta aaatggggct tatttcatag agttgtcctg ggtgttcaaa aaaataatgt
116941 attcaaaaaca cttaacacat cattgtgtga ctgttattgc ttttttgctt atgggtgttg
117001 ttactatgat tatcgtttga ctagtgttat tgttataaaa aggacagtta gaaagaattc
117061 tattaacact ctggagatta cctcacttcg atttgaaagc caattctttc tgcactgttc
117121 taagtcaacc tatacaaat gttagatata agttggaaaa gcccataaaa tegtgtggtc
117181 tcttttgctt ttaatagatt cctcctttca accactacgt atctatctcc cccaattcac
117241 atcatcaaag aaagcttaat gcaattaaat ggggaaagaa gttaagatga aattagacaa
117301 agccacatta aagcagtcag ctcaattctt gacacacaga ttggaggaca aataaagggg
117361 tgaatggaag agatgttttt ctccctaggg agcaggcata agttacactc ccataaatgt
117421 caataaccag ctgtgtgact ctgagtgggt tgagaaacta ttagaataga tgacctccat
117481 agttcccttc cagctcagcc tcagagccca cactgttgct tctgttaaag ttaagtctga
117541 aggggaggat cgggctaaat attaccattt taaaaaagaa tgctagtgtt attcaagaat
117601 gaagtttaat tctcagtcct ttggaatata acttcaactc atttacttag ataaatgctt
117661 tccagtacat ttattaagag agcaagaagt gatgttttga ttaaaagtga attctaaaca
117721 tttgctacat tcagagcagt actttgttag ttatattttg aacttgcctc tgtatttata
117781 gaagcaagtt caacttatat atataggact aagagctggt gaaataaaaaa tttgctatag
117841 attttgcaca tttcgggtga ttaatcaaaa gatttcatct acctaaacat tcttttccat
117901 tttttttctt aatcttggat cctacttctc taagcaggct tcctttctac tggatataat
117961 ttcaataact tcaaaagcaa acacaaagta atcttatctg tgacatttct caaacacttt
118021 tttctaagtc tttcttattt catttggtat acacaaacct agatgggtga gcctactata
118081 cacctaggtt atatgggtat gcctattgct cctagggtac aaaccctgac agcatgttac
118141 tgcattgatt actgtaggaa attacaacaa aatggtaaat atttgatat ctaaacacag
118201 aaaaggtaca gttaaaaata tttttttaac ggtatgcagg ctgaatacag tggctcatgc
118261 ctgtaatccc agcactttgg gaggttgagg tgggtggacc gcttgagctc atgagtttga
118321 gatcagccta agcaacatgg caaaactctg tctctacaaa aaatacaaaa attactcagg
118381 cgtgggtggt tgtgctgta gtcccagcta cttggggaggc tgaggtggaa ggtgtcttg
118441 agcctgggag gcagaggtta cagttagtgg agaccacgcc agtgcaccgt agcctgtgtg
118501 acggagccag actttgtctc aaaaaaaaac aaaaaaaccc aaaaacgaaa aatggtagtc
118561 ctgattactg attagggcac ttaccatgaa tggaaacttg tctgggtgag tgggtgagtga
118621 aagtcaaggg ccaggacatt actatatact aatgtatatt ttataaacac tgtacactta
118681 ggccacacta aatttatatt ttaaatattt cttttttcaa tagtgaatta acctcagctt
118741 aacataactt ttttaccttc taaactttta aattttttta aactttttta ctgtcttggt
118801 aataacattt agtttaaaac acaaacacat tagctgtaca aaaaaacttt ctttctttat
118861 atcctaattc aataaacttt tttccatttg atacagtttg gctctatggt cctgcccata
118921 tttcatcttg tagctccctt aattcccacc tgttgtggga gggaccgggt gggagataat
118981 tgaatcatgg ggtcaggtct ttcccatgat gttctcataa cagcgaatga gtctcaagag
119041 atctgatagc tttaaaaggg ggaatttctt tgcacaagcc ctttctcttt gcttgcctgc
119101 atccacgtaa gatgagactt gctcctcctt gccttctgcc atgactgtga ggcttcccca
119161 gccatgtgga actgtaagtc caattaaacc tctttctttt gtaaatggcc cagtctcagg
119221 tatgccttca tcagcagcgt gaaacagact aatacactat ttttatttta ttttttttac
119281 ttttaaatgg tactgttaaa aactaaatag aaacacacac attagcctag gcctacacag
119341 ggtcagggtc accaactca ctgtcttcca ctctacatct tgctccactg gaaggtcttc
119401 aggggcagta acaagcctag agctgtctac tctacagaca acaatgtctt cttctggaat
119461 tctcctgaa ggaactgctc gaggttgctt tgcagttaat ttattttttt aataagtaaa
119521 agactctaaa ataagatta aaagtatagt ataggaaatc cataaaccag taatatagtc
119581 atttattatc actgtcaagt acatactatg cataattgta tgtgccatac ttttatacga
119641 atgacagcac agtaggtttg tttacaccag cttcaccaca aacatgtgag taacctgttg
119701 tgctgtgatg ttacaacagc tacctagtca ctaggtgata gaaacttttc atctcatta
119761 taatcttatg ggaccaccgt cgtatatgca gtacttcaat gaccaaaca tccttatgtg
119821 atacctgtgt actaaatggt tgaaatattg caactcagca gaaattttta atggatcatt

116641
116701
116761
116821
116881
116941
117001
117061
117121
117181
117241
117301
117361
117421
117481
117541
117601
117661
117721
117781
117841
117901
117961
118021
118081
118141
118201
118261
118321
118381
118441
118501
118561
118621
118681
118741
118801
118861
118921
118981
119041
119101
119161
119221
119281
119341
119401
119461
119521
119581
119641
119701
119761
119821

FIGURE 1 (continued)

119881 tatagaaaaa ctgctagagc tctttgagag acaataaaatc caattcagtc tgcccagtc
11941 gagcaaagac aacccttca gaagttttaa gaggaagcaa gagcatatat tctctcagat
120001 ataacacgta tattcgtttt tcagcagttg caggactact ggctggctgg agctagtcca
120061 caaggacaac cacatcagtc aggaagacct gtgacccaat ggctctcatg tgctcatgga
120121 ctaaacagga aacaaaatc tgccaccca agtatggtaa atgatgaatg gcaagaaagc
120181 aactgggtcta tcttctgac atgtaaatc ctttcttta aagggaggtt tgtctgcccc
120241 gaggettaaa ggcaaatcat gaaatcacgt gtcttctgga aaaagacaca ccagctgata
120301 aaaacatggg tcttccaata atcagttaaa aacatcaaaa tatttataat tatgtgctat
120361 tgcttgagct ggcattctct atttctcatc actttcatca accaaagttt attagggtat
120421 ggaagttgat aaaacttaga gaaaaatccc aaggaaattc catgtctttt gtgttccctc
120481 aaactgaagt tttccagta tctgttttct ccttattggc aatgggtgaga aggaatacta
120541 tatgaaaaga gatttaaaat ctatcataga ctttgtcata tgagaacaat cctttctgga
120601 aaagaaatgt aaacttacag ggatttctta agggctctcca tggatataca ccacccccct
120661 cctccagtag ctgttagctt ttatgtgcaa atgtactgaa ctagagacct attatatcaa
120721 aaggacattt tcatcctaga atatttttca gaaaaacaag cctcaaaatg taactcttct
120781 gtgcagatgc aatcacccaa tcaattcttc tgctgattca acattctaat aagactaaca
120841 atccattcat tcatctatc attcatccag caaacattta ttgaatgccc actacaaagt
120901 tcagtgttgt aacgactgag gctctgaaa tcatggctcc aaaactcaaa acctatgaaa
120961 ccttgataaa gtttctttaa ctctcaagtt tcggtatcct tattttaaact actagtgtct
121021 ggtatgcagc tactttttat gaaccaacct agagaaaccc catctctctt attcagatgc
121081 cctactggga ggaaggtgct tgggtcaacc tagaggaaga ctatgatata ttttgaaatg
121141 atcttaggat aggacacaga atctcaagca ggttgcctct gatctttcca ctgttccaag
121201 aacaaggatc actcaccaag gcactaaatg caaccatttc tgttgcatatc agacagagaa
121261 aattaataca tttaacaaat gattaaaaga agtgttcagg aagaattcaa tatagaatca
121321 cataactaga atggcaacta ttgattagat gaggtctgaa gggcagctgt gtgtatttca
121381 aagggctctg aatgccagat gaaaacatct gtacacagag aggggaagac atgaataggt
121441 ttgaacccta aaaagatggt tgctgacacc aagcagactg gactggggtg gggagtgagt
121501 ggaggtctgt aagccaatta agtttgtggt cacagttagc ataagaatgt aaggaagaaa
121561 aaaggttca atagcataat gctttaaatac catgtctctc agccttgagt attgcatggg
121621 ccatttgtaa acaatttaca aagttaaagt gttattatca tagtgttatt taaaggtgta
121681 caatattcct tatacctata gcgccaatga aagtaaaacc aaaacgaagt tacaacccca
121741 ggtaatttg ttctaaatct tgtcctcttt ctggcttttc gacacctcta ggtcttccaa
121801 cctccttct ctaaaactaa cgattgtctg agagtgtggc acttcaagca aaagacctgg
121861 gttcacactc tgactctgcc acttactagc tggagactta gggaaattgc ttgatcaata
121921 tgagcctcaa tttcttcatc tataaagtca gcagaataac ctaccccata cagtttttgt
121981 aagaatcaaa acaattatgt ggaaagcact ctgttaccat tgagttctca ctaacacaat
122041 ctgttgagct tgcattaata tgcaaaagac aacagaagtt tactaaagta agtgacattt
122101 tttggaaggg ttctgaacta ttaattttt aaaagagaaa aaaatcaaaa aatgtttata
122161 agaacaagac aatcatttat tcttaactac tcaaaactcag aggatcatgt gtgcctccat
122221 ttcattgcat catttgacga ggaggaaaag tagacaggtt gagggccctg gtgtgttgct
122281 gacaaaggca aactgagccc aggccttggt gctccagat ctgttcacca attaaaagct
122341 acaaacttca ttgataatgc ttatagccag ctaaaacagc accttctttg gaaagcagca
122401 cctgggaccc ttccacaaac tctctgcaat gtgctaacac aagtctcaaa gaccgggcat
122461 tttccaggga agatggagga caccacacct cagaacctt gctacctct gagacaaggc
122521 tcaactctca tgtgagagac ctactttaag tgaaaagagg gaagcagtaa tccagctcag
122581 gatcaataga aagaatcaac taagtcttcc tgtgtagatc tatttcatac caaggacttc
122641 atgtcttcaa tttggaaaga agttcaaaaga aaaaatcagg gacaagatta cacaatttac
122701 aaactgactt cacacacatc atatttgatc cacatgggtc ccatgctaga ttgatattat
122761 gacccaaaaa cactctccaa caaaaacaac atgtttattt ctattgtctt aatcttaagc
122821 aaaaaatttt acttgatttt tccgtttctt ctgttcttgg agaaaaactt ggcacacctt
122881 taaagcagta gtgaacttcc catttttgag gaggtttaa tattatttat aaaaatagca
122941 aataaaatgt taccaccca tctctcttc ttgaaattaa tatggtacag tgccaaattc
123001 cattcatcct ttcacttatt cataaaacaa acacattggg agcaccagg atatgccacc
123061 attgttttat cctggaggac ataaaaatga aaacaaccaa agtctctaca ctctgatcat

100434 = 100434

FIGURE 1 (continued)

123121 aaaatcaata ttaataaaaa attatagccc gcaatgtgga ctgatgtcaa aaatcatgaa
 123181 ttcagggtaa aaagaaagtt actaaagact gggatgactg tacaaataca caggaaagaa
 123241 gtcatacaaca aaaaattcta aaaatgcctc aaggtttgagg ccattccttc gagaacagca
 123301 tatatagtag ggcctgtgat ggatggccaa tacaaaaacg ctctgacact aacttaattt
 123361 gcaacttaac aagagtatta actgtgtact ttttaacataa aataaaatgg gtgactatct
 123421 ttcacaact ttttaatttt attctgtgtt ttttagcttg tcttttaaaa aatgaagaat
 123481 ccattaacat tagttttcag gttaccatct taggcaacta aatatgaata atcaatgcaa
 123541 attaaccaat attatataag gaaatttgac ttatctttca acctaagcag acatgatttt
 123601 tttttttttt ttttttttgag atggagtctc gctgtcaccg aggctggagt atagtggcgc
 123661 gatctcagct cactgcaacc gcttctcagg ttcaagtaat tcttctgctt cagcctcctg
 123721 agtagctggg attacaggtg cctgccacca tgccaagcta atttttgtat ttttagcaga
 123781 gacgggtttt caccacgttg gccaggctgg tctcaaactc ctgatctccg gtgatccgcc
 123841 cadctcagcc tcccaaagtg ctgggattac aggcgtgagc caccgcaact ggcctaaaca
 123901 gacatgataa tctatttctt taataaagat aacttaagtt tgcctaaatt ctctataatt
 123961 acaaaataag aatgttgtac taagataaga tttttaagat agacatagca atagtagct
 124021 catcctgaat gatctaattc caaaatcttg catatatttg actgcttctt atttagaagt
 124081 tgtattaaaa gtcaatggat ttttcaaaaa gcaaaacatt gagctgccgt atgaccgaga
 124141 aactccaccc ctagggtatac acccaagata actaaaaaca tgtccacatg aaaattagta
 124201 taccaatggt catagcagca ttattcataa tcgccaaaaa gtggaaagaa tccaaacgtc
 124261 caagtgacta atgagtaaac aaaaatgtgtt atatccatac aatgaaatat tatttggcaa
 124321 taaaaaggaa tgaagtacta atacatgcta cagaactgat gaactttgaa aatattatgt
 124381 ttagtgaaag aaactaaaca ccaaagacca catattgtat aattccatgt atatgaaatg
 124441 tccaggctat gaaaatccat agaggcagaa aaaaatcagt gggtatgcca tgaaatgggg
 124501 agtgactgct aatggatata aggtttcttt tgagggtaaa aaaagtattc cagtatttga
 124561 tagtgggtgaa ggatgtaccc tctgtgagta cagtataaaa cactgggctg gacgccgtgg
 124621 ctcacacctg taatcccagc actttgggag gctgaggctg gcggatcaag aggtcaggag
 124681 atcgagacca tcttggttaa catggtgaaa cccgtctct actaaaaata cgaaaaatta
 124741 gccaggcgtg gtggcggggc cctgtagtcg cagctactca ggaggctgag gcaggagaat
 124801 ggcgtgaacc caggaggcgg agcttgagct cagccgagat cgtgccactg cactccagcc
 124861 tgagtgcag agcaagactc ctctcctcaaaa aaaaaaaaaa cactgaattg cacacttttt
 124921 aaaaagtga cttcactgta tttgaattat atctcaataa agctgttatt ttaaaaaaaa
 124981 aaaaaaaaaa caatggcttt tcaaactcct cctgaacttc cttggcctct ttttgctgt
 125041 ttttatttgt gtctggttaa tttctcctata tataataaat aaaaataatt acaggataaa
 125101 atatgagaga tttgtcagtg tgtatatcac tataacatgt tcattctgga atttttattg
 125161 caattttgct tctaaaattg gaacgtaata atgtagaaaa ttcagtgtca ttgggtactg
 125221 ttatgacagc aagaacttct gaaatgtttt ctaaaatagc agtatctcta agtccaaagga
 125281 tcattttcaaa atatgaaata aacacaagac ttagtgtgac ttctttttta cttctatccc
 125341 ttctcccatc ctcacaaaac cagtacccat ccatgggaaa acagaaaaat ggccaacctc
 125401 caactaactc caggggcaag aatgaccagc atgcctagg attgagagag gaaagagaga
 125461 aggaggggcc tgtattttctg ccttgacaac gtagtaagta aaacgtagca cactgttgcc
 125521 cgtagtttca accagtggat tagcagcccc accttctagg tgaggctaga gagggtgaag
 125581 aaaggggcaa catgtccttg agttctgtcc ccatgcctag agagaggaag aacaatctcc
 125641 tcccagacag aagcactcag taaatgcagg cagtttttat atattctcta gccacacga
 125701 cattcaaata aggetcaaga aagggttagct gaattgaatt atcagaaaag ggtaggggga
 125761 ggagagatca ctgagtattt atgatgttgt aacagtttta attgaatata agtcaatgga
 125821 tcaatttctt gattataaat cttacaatta gattttctca atcagcaagt aacttttggc
 125881 agatttctcgt aacattaatg cactttctag cttaaatgaa aaatggctga taaaagtcca
 125941 aaagataaag tacataagta agaacttact tgggttaaaac aaaagattat ttagagtaac
 126001 atttttattt tttagaaaaa gaaaactgga aattagttat atctaaattt ttaatatctt
 126061 catgctaaag tttagtgaat tttcttatgt gaagtagaca ccttaatctt aaagcaataa
 126121 ttggctgggc atgggtggctc acacctgtga ttttcccagc actttgggag gttgaggcag
 126181 gtggattacc tgaggtcagg agttcgagat cagcctgggc aaaatgggtga aaccccatct
 126241 ctactaaaac tataaaaatt agttggaaat ggtggcgac gcctgtaatc caagctactc
 126301 aggaggccga ggcagaagaa tcacttgaac ccagggatgg aggtttcagt gagccaagat

123121
 123181
 123241
 123301
 123361
 123421
 123481
 123541
 123601
 123661
 123721
 123781
 123841
 123901
 123961
 124021
 124081
 124141
 124201
 124261
 124321
 124381
 124441
 124501
 124561
 124621
 124681
 124741
 124801
 124861
 124921
 124981
 125041
 125101
 125161
 125221
 125281
 125341
 125401
 125461
 125521
 125581
 125641
 125701
 125761
 125821
 125881
 125941
 126001
 126061
 126121
 126181
 126241
 126301

FIGURE 1 (continued)

126361 cacaccactg cactccagcc tgagcaacag agagagactg cgtctccaat aaaataaata
126421 aataaatcaa taaataaatg caataattag aaaattaacc atttgaacag cttttgacgt
126481 ctctagtga aaaacacact agattgttgg tatgcaaact agggacttca aaatattaag
126541 gagctacata tttccctggc aattttttct cccattttatt ttcttaacaa actctatttc
126601 aatatataga acagggttaa cttctactta cgtcacatcc aatgatgag atggctttct
126661 gtatacaata gatctggaca gataattggg aagcagagca tctgctacaa attttgactc
126721 atctgagcct agcttagcta atgtaaaagt ttaccactta aattaatccc agattatttt
126781 gtacaatctt attacttga tcatTTTTTTa tactaggacc taataacatg attacattaa
126841 gaaaaaatat gaattatatg aaaatttagaa aataattcca aatggatttg gttcattcac
126901 cttgaattca aagatgacca ggtatttttc tggacagtac gagggttggg tatagattgc
126961 caaaatgctg aaaatatgac aatctagtcc caaagcacta tgggtttggg ttttggttca
127021 agaactaatt aacttttata cttattttct tccctcaagt catacaccag agtaaaactg
127081 cctctataag agatacagct tcctaaccac acatattaat ttttgggtca tatcaagtag
127141 agttctgccc agctggaagt cactcttttt ttccactaag actgcatggt ttttaacatta
127201 cttgaggata taaaaatatt agttaatcag ccattcagga gcttgcctc ctgcattcca
127261 ttaacacctt ctaatacagc ataaacattg taaaggttat attcttggac aggcagaat
127321 gtctttgaaa aattattaga tccccccag aagagaacta taacacaaat gaatgagta
127381 caggactaac tagaagcagg gcagtatcta gttttcagaa atacagttaa ctaccacatt
127441 aaaagacttc ttttctaag ttcaactgct ttcacctctc tttctggcta tagttggagt
127501 gggggaaagg gctgtgagga ggggaggaag atcattatc aaaggcacc aagcaaaaaa
127561 ctaggcaagt tgtattttt taaaatatta attaataaag ttatactggt tagcaggagt
127621 ctatagtgc catacctaaa ataatgtaa tcaagcccc caaaattata aggtttttaa
127681 gtttagctac aagtataaag ttttagagaag ttgaaaaccc agcaccaga agagtctttt
127741 agaagagttc ttttatagtt ccattatcta cccaaaaaag gaggcggaag gatttagcag
127801 gtaagatgtt ttgaagtaac agatgttctg gaaattaagg atatgtagtc acaggccctg
127861 caactctcaa ttaatttgca caatgttct caatgaaaaa taatgaggtg gatacattaa
127921 tcagcagtga ggtcttctct agccttccac actcaacagt actgagaaat caaatcgact
127981 tccttctgcc tcagctggat agggatgatt atcttactat ccaactag actgtaaggt
128041 taagaaaaac ccactaagtc actgaaaaaa aaaaaaagac tataattaat gctttgtatt
128101 aacttttaaa gaaagtccat taatttggtt acagaatgca agtgtaatc ctattaaata
128161 gcactcagga aaggcaaaaca attcacttct aattgcatat ataaacgaat ataattgcat
128221 aaaataagag accataaatc aaaatacagc taaagcatta ctgtcctgta tattctatgc
128281 attttctcac tggcaaaaaa actagcaaaa acccaaatg acatattcaa agcataatct
128341 tagacagcaa ccttgctaaa ctcaacaag cttccttgtt taaaattttc ttctgaaaaa
128401 attaattctg cccaaaataa caagattcat aatgtgcaa ataaaaaatc cttactggt
128461 ctattgttgt ttattattgt tatctattat tgtgtttttc aaatcctcta aataccatat
128521 aatagtga aaatttaatt cgactttttc ctacttgaaa acgagtagcg cacattatta
128581 aacccactga cacttggtga tatgttttca acaaaatcta cagattcgcc aacgttgaat
128641 ttctaagtac accacaaata attgatata caaggaaga aatgtactcc ccagagaaca
128701 taagatataa atataaatag tatataaatc ttaattgtat ctaaacagat acaataaacc
128761 tctatatctg tctatgtgta ttcaaatcta cggtaaatat atccactca ataccagtc
128821 cgatttaatt ccaacatgga gtaaaaggaa ggtaatgaaa attccttag acctctatgg
128881 tagctgcagt tatattcaaa tcaaaacaat aggaactgta cttggcaca tcataatata
128941 gccttataat ataagggttag gaatgaaaat ggactaaacc attttcattg aaggtaactt
129001 gggcagaagt aacaatgtgc aacgtattga gaaaaataag gtgtgaaaca aaagggttg
129061 cagaattaag ttccaggata aaatactgtc caaggggaga taaaaaagga aatagacaaa
129121 agtctcaaag ggacaactag gtttttataa tgtttcttac aggcattatt cagtatggt
129181 atgctctatt taaactctac ttcacggca agaaaagaat ttcacgcaga tagatattgt
129241 gcaatggaat gtaacaaagc attgtctcaa ggtattgtt attaatctt gtcactgatt
129301 ttggatccat tcctaattgg aactaaaagc tttttgaatt gaaaacatta aagggtggtt
129361 aaaagaaca aatgcagaga gcagtacat cgcagcata accagccagg gtgggtggg
129421 gaagggtctt cacatttaga cagcactggc aagaaagcag gtttttttaa tactactaaa
129481 attatgtag ttttcaaca ctaaaaatat tctgcaatag ctgtttcacc taaggtaatt
129541 tattctactt agaaaagcaa ctaatgaatt gataagtcaa ttgaaaagt agtgagtc

10047324-43449

FIGURE 1 (continued)

129601 atttttaagt tcaaattgca aaattcttta tgcttgaaaa gaattagaat taagaaatct
 129661 gctaaaattt tggctaaatg agcacatttt aagggggttt taaaagaaaa atttaagtct
 129721 cctcagacct atataaaatt ggtctagaat ccattccatt atcatattta ttacagcca
 129781 agccaaagct cattccttta ggactacagc aaaatccagc aatcaacctg tagccaagga
 129841 gctgaatatt catagagaaa aatcacataa gcaagcgaat gtattttatt ttagattcat
 129901 tatcgccacc ccaataacct ctcttctctc cttcaaccac cccaacacac acacctgacc
 129961 ccaatctcag atgatgacct tacatttcac tgggaaaaca aaacctttta ggtaagagct
 130021 cccccaatcc ccaccatcaa gttacaaacc ttggagcatc catttccagt gtccctttgc
 130081 cccctectat taccagggag agatgtccct ctctccaaac aataactaagc tcccctacat
 130141 gtgctgctga ccttctctca agcacaaaag acccatccta gggaagaaag tgcagggatg
 130201 ctgggaagtg atctccctcc tctctaactg taaaaatact acctaatctt ttaatgtagc
 130261 tatttctctc cactagaata taagctccat gagagcacag acattatctt gttcacctgg
 130321 ctgtctaca catgcaaggg tgtccatttt tggagctgtg aaataaaaaa tctttaaata
 130381 tttgttgcaa gtccatctt ctattaagcc tccccctct cccaccactc ccacgaaag
 130441 cttcattcat tagcatgacc ccagctgcat ccagggaaaa ttaattacta catcttttgg
 130501 gctcccataa catttgaatc cctcctacaa cacagaagag acatttttat atacattctt
 130561 cctaactccg attctcattc cacactataa aacaaggtac ttaagaggaa cgactgcctt
 130621 atttatcggt tattagatcc taaatcaatg cctgaatgag ctcaagagag tttctttaac
 130681 tgtactgagg agaaagtcca aactacttta tgaattgatt tctaactcat cccctacttt
 130741 ttcaaaaagaa atatgtaaga taaaatacct atttaataaa taacaaaata ttacttttct
 130801 ttacttgtag aagttattta gtcatgaagt agacaagcag ggtaccactt aacactaatt
 130861 taatggaaag atagtctaaag tttgtaatga gaaaacggaa aatgggtttt cccaaggtc
 130921 acagactaag gcagtggcaa agtcaattaa ctactcttta tcttaccac accaaaaaga
 130981 gctttcattt cccaccaacc cacatccata gatttcaaga tttttattat tatggaagta
 131041 gttgataatt ttgtctatta gtaaaagaag agtaaagttt taattaatta tactgaataa
 131101 aagtgcaggg gtgggtggag ctattaaaag aacaaacagg ttttctcttg ggctatacca
 131161 cagagagctg aacaaaagcc acttgaagaa aactccctca gactacaaga gctgcttttc
 131221 tctgtagatt cttacaagat aatgatcaag caagaaaaac acctaatctc cttttttctt
 131281 tggattctta tatttccag agagattata ttcacaatgt ggaaagtga actgttagaa
 131341 gaatctcact tacttattaa cccagtaaa cttaaaaatt aaataaaaaa cggcatcagc
 131401 aatttggagc ctctggttaa taataaaggg tataaacagt gaagcaagaa actctgcgtt
 131461 aatcaactat gtgatctgt cattctgtgt tctcttaaag tgaaaatggt gaactatgct
 131521 gaaaaacaaa ataagataaa cctttgtgtg tgactaaaaa tctagccagc cgagtcttg
 131581 gctagcagat atggcagaat ggcattattca agacttgga agactaacat tatctataag
 131641 tccgcaattt acaagaagta gttttaacag tgacatgaaa aagataagaa aaggttccaa
 131701 ataaagttat tctattatg atttcaatat tgttatttgc atgaatgatt atgaactatt
 131761 ttttcatcca ttcgttcagg cacttattta taggaagtac tagaatgtca cagaggtaat
 131821 aactaaactc ccaattgttt aaattttttc atagtgaaaa taaatattca tatggaaagc
 131881 ttcataaagt aaatagtttc aaaataaaac agaattgaaa aataaccagt taaatcacac
 131941 tatcaaagtg aatgaaccac aattttttta tttttcaaac tatacagagt cctcattttt
 132001 cagctgctcc acatctaagt gttctcgtgt tttcttagcg gcagcactga acttcagagt
 132061 caatcaagtc caatttttag gatgcctttg gaattgaagt ctttaagacca caactaacia
 132121 aaagcaagta ctttgcctct tcacagcagg atgcagattc ctttttctaa gcagaattcc
 132181 agacattcca tgagtttctt ataaaaatag atgtccattt taaagtaggc cagcctgaac
 132241 tcataccagc ataaaaatag caagaagcac acttatgact gtgaggttta catctgctct
 132301 tgtaagcaaa ctctagagat taccattctt cagctccacc cttaaactgc ttctcagctc
 132361 ttccttacta tcacaagaca gtgggcgctg tgaaaagatg gctagtgggt tcaaggaaaa
 132421 accattgatc aggagagctc tgaggacaaa catggacgag tgcttgactt tcccttcccc
 132481 ctccaaataa actgctgcat tagaaaactg atattacatt taaaggttat cacttctcat
 132541 aactcaatga cttgattaaa gaaaataatt tttttaataa atcaaaagta ccatgatttt
 132601 tttttaacat gacacaacag catacactat aatatcatga agagtacaaa gcttaaaaaa
 132661 agaatttaag tgtagacatc agagtaaagg cctgggtctt agtctctggt agcacatgta
 132721 gagcttgact taagtgggat ttacaccggg ctctgtctat ccttagatgc cccagaggt
 132781 gagatggaaa gcataggctt atcagaagag gattgtgtga cctttttaag ccttttattc

FIGURE 1 (continued)

```

132841 aaaaagactt atcagatccc tactctgtgt caggaccgtg cttggcaact gtaagccgaa
132901 acagacccag tcaactgceet tctggagctg aagcttgctg agggaaacag acaatcacac
132961 aaaggaacac attattacct cccatgagca gttctaggag gcagtcttag cgggagagtg
133021 agagagagag acccaatcta ttccagggat cagggaaagc ttcccaaaag ggagaaatgt
133081 ttacaccaag tggaagttaa ccaggcataa aaggaaaggg aaaggacatt ccaaaaattag
133141 aaatcaattt aggcaaaggc ctgaagcaag aggggcaaag cctgtcagag gaattagtga
133201 gtttgaaaag gcagggtgtg aggggtgggtg tctagtaatg taactagtga aagttgaggc
133261 tgggtgggtgc taggccacag ttcagtctta gtctttcagg ctttattaaa gtccagagaa
133321 gcagagaata acatgaccag aatgtctgtg gagtgaagaa cgggggttgaa aataaaccta
133381 cagcagacag gaggaaaaa gtggctggcc tattgcagta aacttaggat aataatggta
133441 gcctaaacca agaggggtggc aatggaaaag agagaagtgg gccgttttta atgatctcag
133501 atacagtact tttgatgatc ttctaataag ctatatcatt aaatttccaa aaaaaaaaaa
133561 aaaacctggc ccgtaataag cattccatga atattgttg attcagttaa tcttcttcat
133621 tccatgcttc ttctttcttc ctgcctttt ttgtgaagtc cctccccag gtctgtctgg
133681 agtggaccca ccttgcagaa gcaattttct cagaacaaaa atctgtcaac tcatatctta
133741 atatgtcgac actaaaggaa taagaggata caaaggaaaa atactaggga gaaaaattct
133801 ctctgtcttc aagttgaaat tttcatgtct ctaaccagca tttgcagct tgacttcttt
133861 tgggtattta agaaaattag cctatatgtt gtttctgtct atgaacacca ggtgccatac
133921 tatgtttcat ctacactatt taaatgacat gccaaactca ttcttttat tgccagatca
133981 gctccctaga ggtcagagt accgtgtcac ttgtctggtc acagagccag agagaacatg
134041 aactgggaga tcaggtcagt tggaatctaa acccagcctt tcttgcttg cttaccacac
134101 tagttctcaa gtagctacaa ttcttcgcc tcgcttttct ttcacatata ttgactggcc
134161 accatttaa aaataataaa tacgtccact gcagcatgat gttagtttgc tgaaagctag
134221 gaataagaca caggttatte tttctagtgt ggcccagaat taaccataag atcttaagca
134281 aagtattctg cttctatttt ttctgtggtc agatgaagat aatgatataa gtatatgaat
134341 tatgagtatt attgttagta atgagagttc taagcagtag acacagagag gtgccactcc
134401 atgcccttca agaaaggcct ttgtgcccag ctgtggagtg ggtggtcagc agacagcctt
134461 caggaggcag caaccttagg gccagcctca gctgcagagt gctgcttgcc tgagctctcc
134521 cactttccaa ggtggcccat attcagtcct tgaacaaggg tgacagaagg gctgtccact
134581 tcagcctaca caggccgcca ctgactagaa acccttgctg cattcacaag gcttgccagg
134641 cctgcatggc agttcagctc ctctctctac ccaaaactgc ttctccccc ttctttttac
134701 aagtaatgat tcttaataaa catcctgtac cccaaattct atcttggcag tgcttctaaa
134761 gaacccaaac catgacactg tgctttctta ctttgagat attactagg tcatcataaa
134821 acttaattac atatttgaag tgccaagaac aggcctgttg agtaacttga tttgaagttg
134881 ttctattaat taacagaaag atatctttat ttcatatttt aaacaaatca agtccagttt
134941 gatagccttt tttaatctca atttaattat atgccaaagt tgaacattca agtttttatc
135001 ccagataact ttggaagaaa gttatgaggc taaaaattaa aggataaaac taaattggga
135061 catctaatat aattagagtg tcaattcagt gacaacaaat acatttcagt ctagttttta
135121 atgtgttaca caaagctggg tctataagtg cttggcatca ataaattaac aaccagcatt
135181 tttgccagca aagccagcag catgcatata aaaccaacaa gggatattag gccactgcc
135241 aaagctttat acaactagt tcaacttaatt tagttctcat atcagagtgg aatcatgctc
135301 gttctggaaa agtattttct ccaacctctc cggaaactgg aaattaatat atttctctgc
135361 ttgcttatag ccaacactac aattttactt ttatctaaat ctggaggtaa tgtttaaaga
135421 ctgtaatttt aagctatcca agtgaggata agttttaaaa cattacatgg atagtgggtg
135481 taacaagtga aatgggtcatt ctaaaccctt aaataatatg accactgaat cagatatgca
135541 tagagcccaa aaggctcctt cattcaacgt ccagaatgta ttcattcaaa tattatttag
135601 tgagcaccaa ctatgtgcca gtcaatgtct gggtaggcag agctattccg atagtgggta
135661 tcttgcttgg tgaacagaaa caggaatgca ggaaacaaat tctgccaaaa gatccctaca
135721 cttagaagaa ggcaaaaaat atactctac atattaaaaa taaatgaaaa gaaccatata
135781 ttagatgcaa acaaaagatt catgattatt ttctctcttt tgtctttttc ttttctttt
135841 tttagagaca gagtctcgct ctgtagccca ggtggagtg cagtgggtgc atcatagctc
135901 actgcagcct caatattatt ttcttaattg tgtccaaaag aatactgaag aaaggtcagc
135961 ctggaatgtt gaacctact tatttcatag gcagaaacag ctgccaggtt ttggtcaact
136021 gctgtcttac taagactgcc aaatggaaa cccaataggg ctgccatgtt atactgcatg

```

FIGURE 1 (continued)

136081 tcattcaaatt gttaccaatc acttaacatt cattgtaaat actgagtgtt taggaatgcc
 136141 acagaaattc tggagagtca caaacttcta aagggtgctg aagcacttac gcaacatttt
 136201 tataagcaaa atctgagaag tatgatacta tttttcattt tagaattcag tcatattctt
 136261 cactaaattc aaaaccaaac cacatatata ccactcaggc cagagggagg ctgaaaaaat
 136321 aacacttgac aaactgacag aaaaatgcta cctcctgcag agaaatagag gtgttaaaac
 136381 aaatcagggtt gattcttggt tttattaatg tgtaatcatt tacaggacat acttcatttg
 136441 caaagaaaat acttggtcat caagttgaaa gatgaatgat aatcgctttt tgagcatttt
 136501 atattaactg gattaaggta ggggaactagc agaagggcaa aaggcaaaat ttaacaattc
 136561 ttcctaaaat ttatttggtca attttttggt gttccagaga agaaaaaat tttttttcac
 136621 gttttccatc actcccaaac aatttttaaac agaaaatttt attattttat ctttttagttc
 136681 attatgatga attaaatact tgataaaaagg agaaaagtaa actatctttt tatgttgatt
 136741 ttttttaaaa agaaaaccaa ctgtgtggaa tgaggggaatc agagactaat tatatgaaga
 136801 ctatgttaat gtttaatttg gttatatttt aaaaaacctg aaggctcctg cagactgttt
 136861 tcattctatg ctactacccc actcctgggc gcaaccacca aatttttagt ccacctcat
 136921 aaatgccaaag ggagtaagtt ttttttccc aaggttcaac agagatctct tgtgcttagt
 136981 ctgagggcag tggagtcctg cattaatgca tttttttatt aagctctcac tttagtttag
 137041 catgcaacag atattttcca aaggttttta taaaccttcc tagttttctg acttaaaaaac
 137101 ccaaaatata gtcatgaagc ccacgtatct aaatatctct gctccaaagt gaataatgca
 137161 aaaatctctc aaagttacca ttctcatcat taaatcattt tagatttaat tttcagtcca
 137221 aaataaccaa atagccccc aagtttccag aacctgttgc ctcagcaggg agctagcctt
 137281 cccaaagagc acagagaatc caactagagt cacctacca ccaggtctca ccagatacag
 137341 gttccacaaa ctttctgca tccagaaaat ataggaagag ataaagacct gggggaatag
 137401 catttgcata agcagcgggt atgactgtgg gttttggagt caaggagact agcgactacc
 137461 tcctgatttt gccaatctact aattgtatga cactgggcta gttgctgaat ctgtccaagc
 137521 tcagcttccc tgtgtcaaga tgaaggcgtc aagatgaaga tctgctttag ggaattcgggt
 137581 gagaatccag caagatgctg agggtagggc attcagcaca gcggtgcct tagcagtgtc
 137641 ccatgaagag gcgattgctg tgattactgt cgtcctcaac attgtgatca gcccacacac
 137701 ctacatctgt cagctatgct tagaaagggc ttggctgtga gcaacactat tgactgtctc
 137761 tcccttctct ccaggaatag tacagacaag atagaagagt cagtgggtga gaactaagag
 137821 gtaagaatat tttggcactg cggttcttta taacacttag gaattaaagc aattggcacc
 137881 ttgagtacac tcaagggaaa atcagatcag tggcttgaaa gtgcatccag tatacttgga
 137941 aatgcaaaaa ttaattatat ttgatggcga tataataata atagtaataa agatacactt
 138001 taacacaaca acctcagagg taatatcaca cagatttttc agataactca cggtagttat
 138061 taaaattttct gaagaccaca tagctggtaa ggagaagagc caaaattaga atctaagttc
 138121 gtttcattcc aaatgttcat aatcactgta atctgttcca agtgcctcc caaagctta
 138181 gaagcctcat acaaaaccac tacatgatgg aatcagatgg atgagatggg gtaggatgga
 138241 aactcatggc atgctcaata cagaactatg tggcctaaaa aaccagaaga aatggtcagg
 138301 ccttctacag aacattccgc acaaagtgtc aatctaaaat gagggccatt aatcatctgg
 138361 taatttttaag atcaaacaac tgagaccaca ggataatcac ggaacttgte agtcttagaa
 138421 cgtatggact ctaacgcata tgtcagtcac gacatcaagt ctcacaacca aaaactgccc
 138481 aaaagggtttc tgaaaaagag aaactttaag aataacaatg aagaacaaat acggacattt
 138541 tttaaaattc tctttttact aacctaggag taaacgcaac acagtctcat aaaagcaaat
 138601 atcaaatttc cttttttaac tacaaagtta gattaatcat aatccttagt tcgtaacaca
 138661 tatgcttttt gtttaagagc cagggtctca cttggtcatc caggctagaa tacagtgacc
 138721 caatcatagc tcaactgcagc ctcaaactcc tgggtcctaaa gaatcctcct gcctcagcct
 138781 cccaagtagc tgggaccaca ggcacacgcc accacacctg gttatttttt tttatttctg
 138841 gtagagacga ggtctcgctt tgtttgctca gccttgctc agactcccgct cctcaagcaa
 138901 tctcctgcc acagcctccc aaagcactgg gattacgaag atgagccatt gagcctggct
 138961 cgtaacacat acatttatct ctctttaatg gtccatgcat ggctgcctt tatatttaaat
 139021 catttatatt ttatgcatgt atttgatgt tttagataat acgatacacc ctcatgaacc
 139081 caccacctga cacaagaact agaacattaa aaatttacac ctatcaagt tttctcttca
 139141 acccactgc attaaactgct atcatgaata ataataattg gcttattttt ctatatatat
 139201 atcatatat ttgtatatat cttaaaagca ttttttttagt ttttagtttta attttaacac
 139261 attaaaagtt taaaggagaa aaaggatgtc atataaatag attcataaaa gcatttaata

FIGURE 1 (continued)

139321	aaattttata	taaatccctg	atataaaactt	tagtaaatta	agtatagaga	agggaaacatc
139381	cttaaccgga	cccgatttaa	tttttttttt	tttttctgag	acagagtctc	gctctgtcgc
139441	ccaggctgga	gtgcagtggc	gcgatctcgg	ctcactgcaa	gctccgctc	ccgggttcat
139501	gccattctcc	tgccctcagc	taccaagtag	ctgggactac	aggcacccac	caccacaccc
139561	agctaatttt	ttgtagtttt	agtagagaca	gggtttcacc	gtgttagcca	ggatgggtctt
139621	gatctcctga	ccttgtgata	cgcccgccct	ggcctcccaa	agtgttagga	ttacaggcgt
139681	gagccactgc	atccggccaa	aattaagtag	aattctagtc	aaaatcgtac	atgggtcggt
139741	catggaactt	gagaaggtag	ttttaaaatt	cacatggtaa	aacagccaag	atacttttga
139801	aaacgaaaag	caaggagggg	acctgcaccc	tatcagatat	cagcatttct	tacaaggcta
139861	agacaatcta	actctggaca	gggagagaca	tattgacctt	tggagttaga	gagggcccag
139921	aaapaaaaaa	atcccacaca	tatgcataac	tttaatatat	gacagagatg	gtgagtttat
139981	gtgaataaaa	atgaaaactg	aacctccatt	ttacattaca	caaaaattaa	ctccagatgg
140041	attaaggact	taaaatatca	gaagcatatc	tttaaaatgt	ttagtggaaa	atatgtttta
140101	aggacttctt	tctgaatctg	ataaaaaagt	attttttaaa	gacacaaaag	taccatttat
140161	aaaacaagat	acagtattag	taaatttgac	tcttttataa	acaaggacat	acgaccatca
140221	aaagtcacct	tataaaaagt	ggaaaaaagc	tacaaaactg	gagaggatag	ctcccatctg
140281	tataaccacc	aaaagattag	aatcaagaat	atataaagaa	cttctataat	aacaagaaaa
140341	actcagacaa	ttcaaaaaaa	actgggcaaa	agacatgaat	aggctttttt	tttaaagggg
140401	gggtggaata	tattagacat	aagtatttga	ataaatattt	gacctcatta	gtgatcaggg
140461	aaatgcacat	caattataaa	ctcacataat	tggcaaaaat	ttttaagtct	gatagtagcc
140521	agtgtttcaa	gagaatatgg	atgaaccaga	tttcttaaat	attgctggta	ggaatgtaaa
140581	ctggtacaac	tactttggaa	ggcattattg	cattatctta	taacattcag	atactctata
140641	tctgtatata	tacattcctc	tgtgccattc	ctctgtgaaa	tgccattcct	ctgtgaaaac
140701	tagaggaaat	tttgtacatg	tagagcagat	aacatgtaca	agaatgttta	tcacagtagc
140761	attcataacg	aaaatctgaa	aataacccaa	atgtctattt	gagaaaatgc	agaaaataat
140821	ttaggtacat	tctcactatg	gaatgttata	cagtccctaa	aaagggtgca	ccactgcata
140881	caaaaatata	gatagatctt	ggcagcataa	tacagactga	aaaattaaat	cctgaaagat
140941	gaccaatacc	aagatactct	tttatcaaat	ataaacttaa	atataaaatg	taaggatata
141001	ttaaaccagg	gatcaacgta	acaatcaaac	tgaatccct	acctcaataa	aaactgatct
141061	taaaagtaca	aacctccaga	atttccatgg	tgtcatatgc	agtctccttc	acttatttca
141121	tgtgataaag	ttctgcattt	catcaagatg	aagtgtagatg	caaataagata	aaaccacaac
141181	tgtacagcag	tagatattac	acctctcttc	attattttatt	aggaatagtt	tgccctgtca
141241	cttaagaatg	aatatccctag	cgctttggaa	ggctgaggca	gggtggattgc	ctgagctcag
141301	gagttcgaga	ccagcctggg	ctacacgggtg	aaacctgttc	tctactaaaa	atacaaaaaa
141361	aaaaaaaaat	agccgtgcgt	ggcagtgtgt	gctgtagttt	ccagctactt	gaaaggctga
141421	ggcagaagaa	tggcgtgaac	ccggaaggcg	gaggttgacg	tgagccaaaa	tgcgcgcaat
141481	gcacttcagc	ctgggtgaca	gagtgagact	ccatctcaaa	aaaaaaaaaa	aaaatgaata
141541	tcatacctca	tacactcagt	cataaagagt	cttgagaaac	tagtggacca	gaaaaatact
141601	aggtgtatta	tcctgaaaaa	gcacactctg	gaaaacagct	cagtcacatc	attcatcttg
141661	ccacaatata	gtgtccatct	gtgaccattt	ttgagtgaat	aaggtcatac	atttgcttaa
141721	agataatttt	tgggcccagt	aaggaaatct	ctttagctcc	taaattagaa	gccagaggag
141781	cctggcagcc	ttcacatgtg	agaaacctat	tgagcagtga	atagaataat	tattcctgaa
141841	gactgtgtgc	tctggatata	ttcctgaaga	ctgtgtgttc	acggagcagc	tcagtgtctc
141901	gtgaaaggca	catttgccct	cccaactctc	agaatatact	aaaaatgagt	tttttccccct
141961	cctaaatgtc	attagcatat	tctgataata	aacaactgtc	tttaatagcc	agatattttag
142021	tatagtagtt	atacatatat	agagatgtag	ccactcagcc	tattgtcctg	aaaactggaa
142081	aatctgtctc	tcctgtccta	aatattaagg	aagtacatag	cagatgctgg	agaatctgta
142141	aaattaaaatg	taacaggatt	accatgagtt	ttcacttact	atagggtattt	agattccatt
142201	cttacatgac	ttatccacac	tgataaagaa	tacgcataaa	attagtgtct	tttctgcctt
142261	tgataaagaa	caaaatagtg	tgaaagatgt	tttaaacaat	atgagttgag	ttcttaatta
142321	actgttgcaa	gtgtcagagt	agtgttctat	ttgtgagtgg	cagaaagtat	caagacacta
142381	ggagagggca	gttaaggaag	ccccataaaa	actatggaaa	tgagaatatg	gtacaaaggt
142441	agacaaattc	cttgttacag	aaataaggat	atcgaaatga	attaggtttt	ttggatcaat
142501	aatgtcaaaa	accattacgt	atgtgattca	ttaaatgcaa	taaccaaaaa	aaaaatattt

FIGURE 1 (continued)

142561 ttctttttcag aaaagtattc catgatgaaa tcagtagatt tcaaaagaac aaacatacac
 142621 attccaaaac cacttgcatg tattgacaat gttggtgaca tatgaattca tatgagcttt
 142681 ctggagagaa caggcttgag cttccccata tatgtttctg tctcccaac tgggctgtga
 142741 gtttaagaaca gggactgtct tattccttgt tgtatcccaa ggggtgtgatt caattctggt
 142801 gcttagaaaa tattttttga ctgaatgaat gaacttggtta ttatatacca agcactttta
 142861 aaattatttt cacacccctt taaaccagta tttctacccc taggaattta tctgaaggaa
 142921 ataaccagag acacaaagac acatatacag gatgtttggt agagtattat atctaatagc
 142981 acaaaatcta aatgttcaat cacagagaaa tgataaaatg tcataaatca cacaaggaac
 143041 gtagtactag gcagttattt aaaagtgtgt ttacgaccgg gcgtggtggc ccagcacttt
 143101 gggaggccga ggcaggcaga tcacgaggtc aagagatgga gaccatcctg gccaacatgg
 143161 tgaaaccccg tgcgtactaa aaatacaaaa attggctggg tgtggtgggt tatgcctgta
 143221 gtcccagtta ctgaggaggg tgaggcagga gaatcacttg aaccagggag ttggagggtg
 143281 ccgtgagcca agatcgacc actgcactac agcctagtga cagagcgaga attcgtctca
 143341 aaaaaaaaaa aaagtctgtt tacgaagtat aattattgac aaggaaaatt ttcataatgt
 143401 aacataatat gtccagtata tttaatacat atatacacct agatttctaat gtattatata
 143461 catatgcatg agtatattta tatctgtagg aaaaaaagtg tgaaaatata ccaaatgttt
 143521 aacatatattt gctaataaat agaacttagc tgatatactt taaaatttac aaaagtaact
 143581 aaaattttat taaaaatgaa atataataaa ttttaattaa taaacatacat ccatttgcgt
 143641 atgtgctcta tctagaaact atccgacaac cacaaaaaag catttgatat ttagtcttat
 143701 aattcagaaa tgagaccttc ataaggaaaa ggaaaatata caaatatggt ttaaccacca
 143761 caagagcaac tccaccaaaa tgagcacata ctttaaaaaat agtcatgcaa gtaaaatata
 143821 tcattggaaa ggtaaatatt agtgaatatt ttattggaaa tataaaaaaca ttcgtattta
 143881 gagtaatgta atcgggaaac atacctaca aaaatattct aaaatatttt aaaataatat
 143941 aactagaaa acaaatacag ttgtttccaa attttacttt ctaaaaataa aatcctacta
 144001 ctaattctta acaagggtat ggtattttcc ttttttaatg ctgttttacg ttatcactcc
 144061 ctaaaagtcaa taactgtatc agaattctgg gctcatctga tgaaaacatt ccactccctat
 144121 tggaaaacaa tctgaaatca catagcctca gtctgcttcc ctgtatagtc catacaaacc
 144181 aaaccacaaa agctactaaa attaaacagt ggagaattga ttcactgata ggccagcaaa
 144241 aggtttttag gttttttaat tctttgggta ttgtttgtt attgttgta tcttttttct
 144301 ttaatccagg gaaagtccct actacaaagg tctcaaaaca gaattgaaaa gaattgattct
 144361 tgtctgggtg ttcagctatc catatacaca ggttcattct tcagcagagt ttactaagct
 144421 gtttagtgtc tttgaatcag tttttctctt tgtaatttaa aacaagctaa atttgctttt
 144481 tatgaattct taggaagttc tattctcaga taacctatat taaactttta agaaagatgg
 144541 agaattgttc agaataatta ttacagtagc caagaagtcc aaaaacgcta acggctaagg
 144601 aataaggaaac cctgaatata ttaaaatcta gctttacaag ccaaagacat caagacaaat
 144661 attgtaaggc cttgtgcatt tgtctgacct gttgcgccga caaactgaca ggggaagaga
 144721 atacccaaat tctggtcata ggctcagcta ctattcagcc gagacaacct tggaaatctaa
 144781 cttaaaaaata agagttctgg gccaggatg gtggctcgcg cctgtcatcc cagcattttg
 144841 ggaggctgag gtgggaagat catttgagcc aaggagcttg aggttacagt gagctatgat
 144901 caggccactg cactctggcc tgggcagcag aatgaaaacc tgtctctgaa aacaaaataa
 144961 aacaaaaaac aaaaatcttc atgtaaagat aacctgatca aacaggagaa tttactacta
 145021 tatgcaagaa tattgcagtt actgacagga atatttatgc taaagcattt taatgattat
 145081 tcaatgcaaa aaaagtatta attgattaag gggggaaaac aacattatca caaacaacgt
 145141 catcacaggc atctccctag ctacataatt ttccacttgt cacaatgca aattttaaca
 145201 ttactatttg aaatagccac aaggtaccaa atatattatt tatagattat aaaccttcag
 145261 ctttttcagg cctgaaactt agcattcatt tgaacgttta taaccacgta actgaagtct
 145321 atacaacatt aatctgaagt agtgaactct tgagcaagct gccagtgata gaactgggga aatgcaaaga
 145381 tcagtgaaga aagtgcacct cttaaaacat gccagtgata tagcaagact ctgtctcaaa
 145441 ataggcctga aattctagac catggggaga tcttaaaaca acatctagca atcactatct
 145501 aaaaataata ataattgaag aaaaaaaatt ctattaataa aagtattctga taaatgcata
 145561 caaaaaccaa caaaagatga gaatataaac aagttttaca agtatctga acagacaatg
 145621 gataatagag caggaaaccag ttcttagagt gtatttatc gctcccaat tttgacatg
 145681 ctatagatgg ggtggcaggg actgtgagtt gctcccaat gctgttttc cccagccttc
 145741 gtatcataat ttctagttgc ccatacagtc acttaactca agactcattt cccagccttc

FIGURE 1 (continued)

145801 cttgctgctg tgtatggtea catgactaag atttggccaa tgggatgtga gtatacatat
 145861 tacgcacaac ttctcagtea tgatctttgc cctagttaga atctgattga aatgggtcaga
 145921 gccatcttag gccatgaaat agtagatata tgagcatcaa ggtacaagga gcctgggtcc
 145981 ttggtaactg tagaaccaca gtcaggcctg gaccttcatt ctagccatgt agatagtagg
 146041 gaaataaata tctatcttgt ttgtaccatg attacttgag ttttctctat aaataacaat
 146101 tattagtcaa aataatacaa tagctaacat ttatttggca tttactacat accagacact
 146161 gtgctaagag ctttatataa actctctcat ttgtcaaga cagtaacagt ttcaagcaat
 146221 tattcctatc ctcagaaagc caggccttat ggagaaaaga taactttctc agagtcatte
 146281 agctactagg gcctgaacat aggcctatct gatgctgatg ccatggtcag gctgtgagcc
 146341 acagccacat acacaataaa ttccatttgc ctgggatgga gaccagccac gacccccctc
 146401 tacaaagcat tccaagaacg ttgagtttta tgtccccag atttaactgg catatcttca
 146461 ggactgtgaa gaagaaaaaa aaaattgcat catagcacag aaatgaagaa agagttatac
 146521 agccaagatt cacaggggaa aaagaaatca ttcccactgc cactccaata caatgcaact
 146581 taaagtcatg ccataaagtt atacaccaaa aggtttatag ttttttggct ttgggttttt
 146641 gttttttgtt ttttttcagc aggaggagat tatagaggac ctttattttc tacattatat
 146701 gttttttataa ggtttgaaat ttttataatc atccagtatt acttttatca tctaagaga
 146761 caataaagat tttttaaaac atgtcataat gggatcaga aattttcctg ctggaattt
 146821 tattttttat gagaatgcaa ttgtaagtta tgattaaaag tgtcaaagtg ctagagaaat
 146881 gtaattatag agataaaata ataaaagaaa cataccaatt tttaaaaatc tatttccaac
 146941 tatattatcc caatatggat ttaaagcagc ttataacaac aactacagta taacacagaa
 147001 ggagagttaa gtgaaaaaaa ttgaaagcaa aaaggaaagt aaagggtgaaa gaaataagat
 147061 gaaaatgatt ccagatgtac agtcagtgtg caaaacacat gggctcaggt tctgtagcct
 147121 tgttacagat accctgaatt ttttttctaa gcttcctagc agacaaggca aaaaggagct
 147181 cagagtgtcc atcagataat aataagtga tggttcagaa ggaagcaca ctgattttgg
 147241 caccaggacc tactgagatg ctttctctaa tgagtccaca gaatgaagg gctttttcac
 147301 aaaaatgaatt gtgtgtccag acacaaacag gatttttttt aaatgttggg gccaggttgc
 147361 aagtataaaa gtttaataat ttgggggcca aaatttaact gaaagctgaa aggcattgcat
 147421 attatataga aatgcaaata aaatggtctc aatatagttc ctggacaagt ttccaaccac
 147481 cttctccttt atacaaatga tatactgtaa ttactttcc ataattcact ttctttgcag
 147541 atacttatgt cttaaatatt actgaccatt tttaaatatg caacactaaa atcattatgg
 147601 tctgacattt ttatatgctt ataaaacaca tttgttcta actgttttta ttagaagaaa
 147661 tgtggcctgc tgcaaaacca aacctacata tttactttg gaaaaaaaag agcagctgga
 147721 aatataaaaac cccacacatt tgcttttaac actgcttggg aactaaaacc tatcatgtgc
 147781 acttgactgt gttttcacag aaaagcagca ttctcagtgc aggcacagcc caggcattc
 147841 tcaactgtcc ccaggaagggt gtgagggggt gactgtgcaa gctggggctc cccgtagag
 147901 ggctcccttt cacagggatc tctggaccat tgtgtctcta gacttaagaa tacagaaaac
 147961 aaaattcctt ggaatttagc ctctgaggag gcaggcaaat tatgttaacc acaagcaaac
 148021 atctacatta ctttctgggt tgtttccact accttccaaa ataaattgca atttaaaatc
 148081 agatcttaga agactacata taacaagaca cccgtatatt ttcttttctt gcctcatgaa
 148141 atgacaaaaa ttgcaaaaac ttttaatagc atttaaat ttaactcta atcacatgtg
 148201 tttatattta aataaatggt ggtttcttaa aatacgatta ttcccaact ctcttgctat
 148261 aaattaaaac acaaatggaa gacgaagatg cccagagatg attccagttg atggaagttc
 148321 ctggtccagt acagaaagggt aaagagaata acaataaata taagtcaaaa gaagggtgga
 148381 aacaaaatac actggcagta aaggcatgtt ggtaccaggt gggttcttgg aaaacaggtc
 148441 agcagaagtt aacagggtgg tcaactagccc agtgagccaa ctgtttccaa aacactggtc
 148501 caaacacaag cctacttggt ctctgctggc tggctccctta ttagagattt ccagctggaa
 148561 cttcaaaact tgatacaaac catgaccaag accagattat cagattaaaa ggaaaaacag
 148621 tgagtactca aaaaacaacc gatgtaatcc accagattat cagattaaaa ggaaaaacag
 148681 tcatcatcaa tcaatgcaga aaagcatttg acaaaattca acatacattc atgatttaaa
 148741 aaaaaaaact ctcagcaaat taggaataga agggaccttc ttcattctga taacacctac
 148801 gtctaacata atacttaatg gtgaaagatt gaatgctttc ccctaagac cagaaacaag
 148861 gcaaaaatgt ccactccac cacacctact tgacattgta ctagaagttc tagccaatgc
 148921 aagaaaaaaa ctcaaggaaa agaaataaaa ggcattgcaga tttgaaataa attaaagttgt
 148981 tcctattcac agacaacatg actggctatg gagaaaatcc caaggaaatca aggggaaaat

FIGURE 1 (continued)

```

149041 aattttctaga actaataagt catttttagca agttcacaggy ataaagttca acacaaaaat
149101 taaccattttt tctatatata cactttctgt atacatagaa accaaaagaa aaaacacaca
149161 tattagaaac caagaaaaaa taccacttac agtggttaca ttatactta agtacaggctc
149221 tcaaaaagca catacaggat ctacatgctg aagatgacaa aatgctgctg aaagaaatga
149281 aagaagacta aataaatata gaggcatacc atgttgatga attggacaat tgggcataat
149341 aaagccatct gttctcacca aacttatcta taaatttatg caatcccaat aaaaatccca
149401 gcatgattttt ctgtaggtag agacaagctg attctaaaat ttatatgaaa agacagaaga
149461 actggaataa ccaaaacaat tttgataaag gaaaaataag attggaaaaa tcatataagc
149521 tgatttttaaa atttaataa aagcaacagc aataaagaca gtgtggtatt ggcaaaggaa
149581 cagacacatg tgtgtctgaa atttttctatc ataaacaatt tttaaaaata aaatttaaaa
149641 taaaccaaatt ataaggaatc tggaaaggctc actgaggcac atgagggaaca ttattaaaag
149701 gctggagaac agacactaca gctgtgattc ctgcctgtct cattcgctca ctcaactca
149761 atgcttggca tagagcacat agtccataaa tagctgctca atgaataaaa agtgaatgac
149821 gcaccaaggg aaatcttact ctttttctctt aacctatag aaggaaatag caccaagaat
149881 cctaataaat tgatctctctt aattgaaaac caaatagaga aagctgcttt aaaaataaat
149941 tttatttttag aatgtcaaat cctaaaatag aatgtctttt cctaaatacc ccagctaca
150001 ctgctttctc ttttatgaac tctctagta agtggcctta acatttctta atcaaataca
150061 gtgttaaact gtcctctctgt gtgtggtgctc tgggctttac catgtggtga ggatggaaat
150121 agctgacttg tattgatgga gttcctgcca tatatctga cactgttcta agtgccttcc
150181 actcaacctt gcaaagcaag ttattagtagt cccctctccc agatgaagaa actggggcat
150241 agaggggtcaa gtaacttctc caaggtcaca cagctagctc agggcagagc agggactcaa
150301 acacaggcaa tctggctccg tacttgctc agtactgctt cttctgagga ccttgagaac
150361 ccagactcct acaaatcaca ctatttttgt gtatttttct cagcaatgtc cacctaggac
150421 aagggttggt atgcagcaca tactttaaaa tctaaatgac tgggtgtgcta tctgggctgc
150481 atttgcaaat tccaagagca tctttaggga aagtttttag ttaaagtttg tgtgttctg
150541 aagagccctc ctgaacttct tataatgttt tagttaattc caccatgagg atttccatga
150601 caaaaaaaaa ttgttcatgt gtgataaaga taaaatgtta gtacttacca gatgttaagt
150661 ttttaatgta aatattgccc aaaatagata ccaaaacaag actagcaaaag taaaaatcct
150721 cctgggggaaa attattttat atctcagtag aagtcctttc ctataaatcc ccccgccatc
150781 cccaacaaac acacatagaa agcctttgat ggcaaaggaa acctcaaga tgtcttgca
150841 tgagaaaaca aaacatacaa caccctccag gaattctggt ccttcttaag atctctatca
150901 ctaattgttt tggaaaacct caatacaagt atatgtttca attctgggtt acatgtagtt
150961 taagggtaaa gaaaagaaat gactgtagtc agccatccat tgccatctct ctaatgaggt
151021 atgtgcttac tgaacacatc tcatctgaaa aaaaaatttt tatacaaaag atgagttttt
151081 ctattgatct ttttcttct acagcattct actaaagaga gattaatccc aaaacaacaa
151141 gaaaggcctt taatgaaacc tcacagcagc tggccatcac ccaggcttta gctgtctccc
151201 acgatacact ccagacattc tgcattgctc ctgtacatta catgtcagac cattccaatg
151261 gaatgggaaa ctatgattac actataattt taacatttaa ccaagtttt tgctgacata
151321 attagctaaa aatattagca aaaagggtta caagagctgt ccagttaaca aaactaattt
151381 caaataacaa atttggagga tgataatttc agtgaccaca aagtaaaagt aaaaacttta
151441 tctatcaag gacagcaata ggctaaccga attcaccacc tataagggga ttctctagga
151501 aaccaccac gggtaaccaa tttccactgg caagaaagag aacacagagc tgattatgtg
151561 accactaggt ggcaccttca cactgcttca tctcaaaacc atatttccac ctccactatg
151621 gccttcccaa agtattagca gtataaaatt caaaccagc tgcctcactt taacaaaaaa
151681 taaatttaaa aaatgagaaa atacattttc aattaaaaac ttttccattt aatttctaca
151741 tctaaggctt tgggtgtata tcacagaaga atatctcacc aaactgtcaa tataaattgg
151801 tattctgact ttatcgcccc ttggcaatgc attgttccag tattacaatg tagaactgag
151861 ataaatttgt agcttcaact atatgtgtaa ctgaattaaa ataatttcaa aagccctgtg
151921 agcaaaggct gtgactaact gaaaaaacia atgggtggcct ctaatacttc ttgagtccea
151981 gcctatgagc gcaagtgtca agtaactctg cagactgggt agaattgata tcatctcttc
152041 atccctttca aataaatata ttgaagtttt aaaagatttt ttaaaacagg tctagattat
152101 gacctttagt gatctacaaa caattgttaa attcctcaag acttgggtga cattattaga
152161 ttcaaaggga aagtctgagt aatgggcatt tccctatttt ggaattatgt tttatgtttt
152221 gtttgttgtt ggcaggagaa tggggcagac agttctgctt acttgtctgt atctatttgc

```

149041 aattttctaga actaataagt catttttagca agttcacaggy ataaagttca acacaaaaat

FIGURE 1 (continued)

152281 aaaatatcat cccagtttca ggtagctaca aatggctggg tcccaagtaa acctttttaa
 152341 tgtgagggtt ctccttggca atctcaatct ctcttttct ctccaatctg tgtccttccc
 152401 tgctttgcag cctcttactc aataacactc ctgcttttga cacccaatgc cttttcacct
 152461 ttctttcttt cttttctttt cttttttttt tttttttttt tttttttttt gagacagagt
 152521 tttgctcttg ttgcccaggc tggagtggga gtgcaatagc gtgatcttgg ctgagtgcac
 152581 cctctgcctc ctgggttcaa gcaattctcc tgcttcagcc tcccaagtag ctaagattac
 152641 aggcattgtg caccacacc agctaatttt gtatttttag tagaaatggg gtttcacat
 152701 gttggccagg ctggtctcaa actcctgccc tcaggtgatc caccgcctt ggctcccaa
 152761 agtcttggga ttacaggcgt gagccaccgc acccagcttt cacctttcta aactgactga
 152821 ggcaagcgtc tagaatcagc cttttctatt ctaaggtaaa catgagccag tcacttgcag
 152881 agttggtccc tacctcccat ctggttccct ggcaacttgt atccacctct ttttcaggcc
 152941 tgaatacctc acattgtaac tctctgtcta catgagggcc tctctacca agctaaaagt
 153001 ttgtcaagaa agaagaccag gtcttaatct gtatgcccac aacctacca tgggtgttgt
 153061 aacatttaag cctttaatca atgcttgttt aatgaatgta tctcttggc ttgctgtatt
 153121 tacattttta gctcttctc taactgtgga aagactttac ctctaccta cacaggagt
 153181 cttaatttta gagttcaaga acacattttt atgtacatct atatgagcat ttttccagga
 153241 aagaggttca cagccttaat gagattctta aaggaatctc taactcccaa aatttggaa
 153301 caaaccaagc caaagaactt caagcactag gaatcagaag agaggcatat tattaggcta
 153361 aggggcctgc caagcatcca tggaaactata ttggtaggaa gctaccaact ctgcttatag
 153421 gtaatctctc tgaatacaaa gtagaagtag acagactagt cactgctgac aaactcagac
 153481 cagtcgatgc aatcgtatgc attcacaata tacacaccta aaagaaacca caactcagg
 153541 gagatgacaa tgatcagaat acagatgctc ctcaacttac aatgggctta catctgata
 153601 aacccattgt aagttgaaaa tacagtaagc caaaaatcca tttacttaac acacctaacc
 153661 tactgaacat catagtttag tccagcctac cttaaacatg ctcaagaacac ttatattagc
 153721 ctacagttgg gaaaagtcac ctaacacaaa gcctatttta taatcaagtg ttgaatatct
 153781 catgtaattt cttgaaagct gtacctaaag tgaaaagaag aatgttggta taggtattcg
 153841 agttaagggt tctgctgaat gcatatggct tttgcaccat cataaagttg aaaaatcatt
 153901 aaattgacca taataaatca gggaccatct gtactatgat ttctagaaag ccacaaactt
 153961 ttaaaaactgg gtagcaaaag tataggactg cagagaaaaa tatctatttt tattccagat
 154021 tctaagtcct atgcagaagc acagccctgt tccacattga gtgtccaaat acatacaggc
 154081 ctatgccttc taaaaccctg cttcatgtgt cctgaccca gcaccaatc tctttgcta
 154141 acacctgtgg gtgaggtggg gtccttctcc agttttgtgc ctgctaagta gagcccacca
 154201 ctggaaaaat tttcatagge taaatttttag tgaattacta agaacaattt aaaattgggg
 154261 aagtgtattt tctagaggte tgtttcacca agaattttca gtggcattaa ctagtgttga
 154321 tgagttattt gacatatgaa gatgtcaggt agatacatcc caggcctctc tgacctggac
 154381 tctctgactg actaattata aatcagaggt tcccatgatc cactcttcag gttcaacaac
 154441 tagaatgact cccagaacte aggaaaatag ttaacttact attactgctt tactataaag
 154501 gatactactg aggaacagcc aaacggaaca gatgcattag gagatgtacg tggaggagc
 154561 acagaatgtc attgtcctct ctgtgcaccc caccctccca gcacctctac atgtatacca
 154621 acccaaaagc tctccaaaac ccatgattta ggggtgttta tgaaagcttc atttatatagg
 154681 catgattgat taattctttg gtcattgggt atgagcttaa tctccagacc ctctccctc
 154741 cctggacac tgggtggac tgaaagtcc aaccttctaa tcatgctctg gtctttccag
 154801 tgaccagcct tcatcctgaa attatctagg agcctccagt caccagtcac ctcatagca
 154861 aacaagacac tcttttcaact ccagagagtc caaggtctt agaaagtctt gtgtcaggaa
 154921 ccgaagacca agaccaacta ttataacaaa agttgctcct atcaccctc tcaactcagga
 154981 tattacaaag gttttaggaa ttctgtgcca ggaactgggg acaaagacta aatatgtatt
 155041 tcttattata tcacaatate acacatactt aatcaaatca ctgtatttat aataatagta
 155101 agattagtta tctaaatgtc cacacaaatg gcataaatca ctgaagtcct caaaaagaaa
 155161 atgttagaag caaatggaga atcatttgag tccattatca ttttctacct ctctctctc
 155221 gatacggtt tctttagtc attcatttct catactgaaa atcactcatt caaaaccagc
 155281 cttttaggta gaaggtcagt acccatgtat taggctttaa tgttgggatt cagatgatat
 155341 ggagtggagt ttttctacca taaaggggaa gatatttgaa taagccttta agaagagaa
 155401 agtgaaaaac agggaagaat aacatgtgca aagattcagt ggcataaaga aggtttgtat
 155461 gttagggaac agcaagtagt tcacagtggg gggcacgctg ggtggactgg gagctatggc

FIGURE 1 (continued)

155521 gagagatgag actgaaaagc gtacagccag ccagggaatc tggattcatc ttaaatgggt
 155581 acagggccat tataggatgt taatcagggg agtgacatat catatttgca ttctggaaaag
 155641 atcattcttg cagcagtgtg gaaatggact gaggagacta gttgcagaag gagcagttaa
 155701 tgtggtaaga cagagataaa ggatttgaaa gacattaagg aggaagaata cacttatatg
 155761 actcccttca taactgtggg gtaaaaatat agtccaatct cttcttttcc cagttcattg
 155821 gttttgagac cccattagtc tatgttatta gcaacaattc cagtatctcc ctctgaagc
 155881 tgctccacag ccctacccca aattgttgaa aaatgctgag gtctgtcctg gttccaaata
 155941 ccaggctcga acagaataga aagcctgatg agtccaagat gagtccacat ttctagctgc
 156001 tgcagctcct ggtaaaacca tagagtgtt acttttgtcc attgctgcc acaacctggg
 156061 tgttccagat ccctgcaaag acaactgtga tgctccacac ttgggatccc aggggactgc
 156121 tgptttacct taactcatat acactgtcaa aggatcgata ctgtgccaga aacctaggct
 156181 cagccacaag ccctccttca tgagcctaga aaggccctaa tgctagccag ttcaacattc
 156241 tcctttctcc atagttagtt tcccttggg ccccttggag tcttttctt ccaagggacc
 156301 tctgctggga caacatcaat ccatcagaga ggttcgagta aaactgagcc aaaaaagaga
 156361 aaggagctag agttggactg cctttcctcc aggaagtccc ttggccctta tacaggcaat
 156421 cagcagtgtg agactttgtc tgcacacaa tttctgtca ctcttctccc agaactagg
 156481 ttactcattt gcactatatt tgacataatta atagggttaa gtccagtctt tggggaaggg
 156541 tgactttcca tgtccaccta aagagcaagt gcctggacat tcttcacaat ttagaaaaga
 156601 aaagaaaaaa agaagtgaag tgtctgtctt tagtgactaa gtagatgggg atgcaactgc
 156661 tctgtttctg agtgccagca acagggcagt ggccccagat gaaagtcgcc cactgcaag
 156721 gcttgggccag tgactggagc ctctgtgtga agaagaagca gtgtgccagc aagcaccatt
 156781 catcaaatgg aacacagcag atttcagcca cttctttccc tcagccagtc acctctggac
 156841 agtgtagagt gacgcagtcg tctgtcctga aactaaggca gaatgttctt cttcaagaag
 156901 ttaggttccg ggatgagtct gtggcatcag ccaattaaag tcttttccaa agagtctcat
 156961 ctattaaaga agagagatcc tgataagata aagatggcag aaggggactg tttgatgggt
 157021 acactttttt tcatggggct ggggaagtac tggactgaaa gtgataaagt ctctcaacta
 157081 atgtgactcc tctctagctc agaaaagaga attatctgtg aattctctca cctctctga
 157141 agtgccagtt accaggggga cagtcacag tctatcttct ttatacttct ttcaagaggc
 157201 ttaaagccct gtgagggggt agatagatag atagatagag agcgagtgtat agatagagaa
 157261 ttttaaaagc tagactagca attactcacc aaaaagaaaa aacaatttcc tgttttgtgc
 157321 tgtcagtaaa atgtaaaatt ttacagaatg cccgcaagtg attctcttta agtgctgcaa
 157381 aaggattatt ttctacaaag tcgaaaaaaa aaatttttaa tgctgatagg aaaagatcat
 157441 cttattaggt gctttgtaat gtagggggaa ctccagtcaa taagcagtgt gaggtggaag
 157501 gaaagaaccc ccagaggag atgagacttg tacgccacac cagctgcact accaactatg
 157561 tggccttcag tgaccacctc acaggaatcc ttcagttacc cacctggagg gctacttaaa
 157621 taccaaacag aatagcttat gtgtgaaatg ctttgcaact ataaacgatt attcacctgc
 157681 attataatta tgtttctaca aattgtgctt gtcagttcac atcccaaaag gacctaaaca
 157741 ttagacacca ttttacaatt tataaaaggt cattatgaag ttctgaaata cactctggct
 157801 gaagaaaata cagagcactt taggaaaaaa aataacacat catccacgtc ttcaattcta
 157861 catcctaaat aaacagttta atcccatcac ataaacacagc aaagcctgtt atccgataaa
 157921 aggagagtac taaacctca atttaaggac cagttacaac tgattaaagt aaggatactt
 157981 ataatttagt gtgtaagaat gtatgctgaa atataattag tgactatgaa ttaaagcagg
 158041 atggattagg ctaattcctg gaatgctatt agagagaaga ccttaggttt aaaaaaaaaa
 158101 gaaagaaaga aagaaagaaa agaagaagaa aaaagaatga tctttgtgtg tgcacagcag
 158161 ctaagccgct taatgtccct ctaatggatc tgaatgggaa gaaaggggag aaggggagtg
 158221 gagccctctc catggcgctc gccacgcta cgcctgctg gcaactgcagc cctggaaacc
 158281 tgggtacaag gcagaagggg ctgagttgca tgccctccgc tcaactccca gcttaattta
 158341 tatggtaatt agagctctgc tgccagaagg gagagcatct gccaaaagta aagtcctcac
 158401 aataacaaaa ctgacattag ctgtgatgcc gccaaagtgc tgactaagaa atttctttta
 158461 tctccttttg aagccataaa gtgcattcat gttattacta gtcgggaatt tttaacagtc
 158521 ttgcaactgac agcaattatt taacacatgc acaaaacaat agagtctcac accacgtaat
 158581 caacctttga gctccgtgac ttccaatgct ctcactggct ggattttatg gtctggtagc
 158641 tctgaacag ccaagtatat aagccacaaa aacagtataa aaatgatttg aagcaaccac
 158701 ttcttgtgccc cttgcagatt tatttaatga ctgaggcaca ctccatgatc atgggccaat

FIGURE 1 (continued)

158761	taaaagattt	gtctgcccac	cttatttcgct	gtgtttgact	gctacaataa	gtctctgcga
158821	aggaatcaag	ctgaacgcat	ggttgttgac	ctgtccctat	atccaatttt	tccaaaacat
158881	cagccagaat	aagattttaag	tatttttagca	atctatttta	ggtggactat	attactacct
158941	ttctcagtaa	aagaattcat	tcaaatattg	tatttgaata	tcaactctgc	taaggcccaa
159001	aatagaatac	tatatacaaa	ggagaagaaa	atcaagaaaa	ctgctttcag	gtatcatcta
159061	actgaggagt	tgtaatcaaa	taatagtgat	agaggctgtg	tgtgtttaaa	gaactctcct
159121	ggaagtcaga	tgtgggttat	ggacaagtca	ccaaagccct	atgtctgggtg	tccttatctg
159181	taacaataga	ggtagtata	gctatgccac	ctgcctctaa	ggttttcatg	aagatgaaac
159241	aaaaactgaa	ggaacataga	agaatagatt	ttaaattatc	tcatcacaaa	aaaaaatgat
159301	aagaagggtga	agtgatggat	atatattttat	cagcttgatt	taatctttct	acaatatata
159361	taecatatac	aagaccacac	tgtaccctat	aaatatattc	aactattatt	tgtcaaataa
159421	atttaaaaaa	tgcaagtaaa	agcactttgc	aaactatgat	gcactatata	aataaaggaa
159481	taattattct	ctgcaaatga	taccaagaga	tttatttttt	ttttttggcc	actctaattc
159541	aaggatttta	gtatgtaacc	atcatagcca	tggagacctt	gaaatctaata	tgcattttact
159601	aattttactat	gagttatcac	taggaattcc	ctaactcagt	atcaagaata	tagaaatcag
159661	aatatcaaa	ttttaagaat	tatgaaattt	gtctaaaggg	aacatagtgt	ttaaaataga
159721	tggctaaaaa	cagcaagcat	tataaaaaca	agtcaacttt	taaaagactc	aaattatata
159781	cacaaaatcc	tcagtcacta	tgtaaagttca	tgactttata	catattttacg	tgcaaagttt
159841	gaattatatt	atgactcatt	tttgccgggt	catgggtggct	cacacctgta	atcccagcac
159901	tttggggaggc	gaaggcagggt	ggatcacttg	aggtaaggag	tttgagacca	gcctggccaa
159961	catgggggaac	gccgtctcta	ctaaaaatac	aaaaatcagc	tgggtatgggt	gggtgggtgcc
160021	tctaattcca	gctactcagg	aggccgaggc	aggaaaatcg	cttaaacctg	ggaggtggag
160081	gttgtagtga	gccgagatca	cgccactaca	ctccagccag	tgagactccg	tctcaaaaaa
160141	aataaacaaa	caaatataat	aaaaataaaa	aaaaagatat	atataatata	agactcattt
160201	ttaaaggcat	ttttagtcaa	ctagttttga	gtattaaaaa	cataacttaat	gtaagtcagg
160261	tacaatatag	aaaggtcata	atcaatcaca	taatctcttt	cttagcccat	ttatctgccc
160321	atacatctgt	aacagagatg	tgctgtcagt	agggtttaca	ttttccagc	aaacggaatc
160381	atagaacaat	agggttttag	agctctgtct	tgcttttatg	taggttgtag	ttccctaaca
160441	tttgcatatg	ccagcatttc	acctatttct	ttaaactgca	tgcaataggc	atgccatgcc
160501	caccattttg	aaaaggtaact	agctgcctac	ctgggattag	tccttgacct	ctacatcaaa
160561	atacacttct	ggtcattgcc	tttgggtgtt	aattgccttt	ggtgttctct	gtcagcctcc
160621	cctccatggc	tgccaatccc	catctgtacc	ccgtggccacc	cagtacccaa	ctgttctctt
160681	tctgcttgcc	tcactctgct	ccttctctct	aaatgataac	tcacactctg	cctataaagt
160741	tttcttgcca	aagtatcaca	ttctacttta	cacactttac	ccttcaaagc	ctttaaatta
160801	ttgtttatat	actcccatga	gttatattta	tttgtgtccc	ctatataatt	ttaaattctt
160861	atggacacaa	atttaattgt	actatttttc	acagtcaaat	tcaatattac	catattactt
160921	tcatatgcag	aagtatgaca	atgggtagac	ttcccacact	atgcaaattc	ctgctttttg
160981	acagatagtt	aaatcttaat	acactgttag	gagcccaactg	actacgggac	attgtttgag
161041	ttgctaagaa	aattttctga	aggataatct	taggccattg	atgttgatca	tgtgtgtttg
161101	cacacaacgt	agagatagaa	taaataaaaa	ttaaaccagt	gagcttacta	cttcttgcta
161161	acattcaatt	caaatattta	aagtagactc	actcaagaaa	aaaattacat	tcctctatgt
161221	ttttaattgt	cactgcttat	ctaaacctta	gatactaaga	aatgaaggta	agaagagatt
161281	agcagcaaac	ttcaaaggta	gtagcaggcg	ctttcgcaag	aacataatta	gatggtgatt
161341	tcattgacat	tacttactca	aaacacactc	tagagatgat	gcagggtcta	tacatgaaag
161401	tatataaatg	cttttgatgg	atcacctcaa	gaacaaaaaa	gcaggctgca	atcccagca
161461	tatatttctc	acaaatgact	ccatatgaaa	ataagagaga	aaaatagcac	cttgcaaaac
161521	ttttcaatat	tgtagaacag	taaataaaat	taacacttta	gaggtagtta	aatctgtaac
161581	atatgtgaca	aagagtatat	gttttaataa	tataaagaca	gctttccaat	acaaaacgaa
161641	aagaatacct	taataaaaata	aataaatgaa	aaaagataca	aatgggcaat	gcactgaaga
161701	agaaacacaa	actgccaata	aacaactgaa	aacatgtcca	aattttactag	gaacccaaaa
161761	aatataaatt	aaagcaacta	tatcattttt	aaactctgag	attggcgaga	aaagaatact
161821	aacactatag	gtatagcact	ctagaatatt	cttagtgcaa	gaataaatta	cacaacctct
161881	ctggaggaca	atttggaac	acacagccaa	actctacaca	tacactctca	gcaattccac
161941	ttaagaatat	atcctaagac	aataattaaa	caaagtctca	ctctgtcatg	gtttataata

FIGURE 1 (continued)

162001	acaatattgg	acattactag	aatgaacag	agaaaggcct	cattcaatag	acacactcat
162061	atagtaccat	aatgtattgt	taagtgaaaa	agcaggctat	aaaatgtatg	tagaatatga
162121	tcctggtttg	taaaaagaca	aaaaaaggag	gaaggaagga	gaggagaggg	aaggagattg
162181	aagaagagag	gaaaggagga	gggggaaggg	gtgtctgtgt	gtgtgtgtgt	gtgtgtgtgt
162241	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gttgggatgg	gggaaggtaa	gcatttgggg
162301	tatgtgtgaa	tagggaaaac	ctcagacagg	atcatgacca	agtgttaact	atgcttgtat
162361	gcataatttt	tcttttcttc	tttatatttt	tctagaatgc	ctgaatgccc	ccaaaagcta
162421	ttttcactac	gaaaataaat	ttaaactgta	atcacatttg	catagccact	ttataattaa
162481	agagaaatct	tttaacaaat	tctccatcat	tatcttcaga	ggcagtcagt	gattattttct
162541	agttgggtac	aagagaacct	ttcacattca	caaagtgtgt	ttctagatat	accaaacaaa
162601	aaqaaaaaca	aaaaaaccta	aaacttgctg	tgtgtccaca	gagactcttt	aaaaatattc
162661	tctagtactt	cccagtggga	agcgcctcag	tggaggcagg	gcctgaaacc	tcattccatg
162721	tattagatac	tggttggcca	ataagaatgt	gaagagttaa	atacccttcc	agaatactta
162781	atgtatggaa	tgaactggga	taaataataa	ttacattagc	aaatactgcc	caaagaaaga
162841	tttctgagat	attctaactt	caggaatcaa	atacaaaactg	agtcgacatc	aagctcagca
162901	gcataataga	atgaagtaag	acactctgcc	ctgtgcttcc	caaattcgtc	ttcgctcgtc
162961	actcccaagt	taagaaaagc	ctataacaga	aaaataataa	aacaagaaag	ttccatcat
163021	tttagataga	cattgtgaat	aattctacaa	agacacactt	ctcctacttc	tcaatatgtc
163081	caagatgtga	aattgagcgt	attctttctt	ttccaagatt	acacatatgg	tttcaataaa
163141	tcttttattt	caattttcat	ttcttggcca	tcatttttta	gatcaaactc	aacaacctat
163201	gtcagactca	ctttaaaaac	acacagctag	acacttctat	gggacctctc	tcttcaactat
163261	ttttagactc	tcttagaate	ttactaatgc	ctgttttctt	tataccctta	gaaaattaga
163321	atgttggggga	aatgtttact	ttaaaaaaaa	aaataaaacca	atgtatctga	gtgctacata
163381	aatcaccttt	ttctactctg	aaactgcctt	gtcaatagtc	actagccaca	tggggcaatg
163441	gagaccttga	aaggtggctg	agtccaaatc	aagatgtgtt	gaaagtgtac	aaaacacact
163501	ggatttcaaa	tatatatata	tataaaatat	taattgtata	tatatataat	atacaattaa
163561	taatgtttat	attaattaca	tgtcacaaatg	atgtttgact	atagttagtt	aaatataatt
163621	tcactctgct	ctttttgcct	ttttgatgtg	actagcagaa	gattttaaatt	tacttatgtg
163681	gctgcattgt	gtttctgttg	gatggtgctg	gtctggaatg	ctagtctcat	atgtcgagat
163741	tcttactgcc	atttctgtaa	ctctgcaaatt	actcagtatt	ctctttaaat	aataggtctt
163801	catcagtggc	attactcaag	agatttgcct	cctctaccac	actcggtaaa	acacctgcca
163861	ctagtacttc	cttttcccca	aaattaaactg	ctgtgcttac	tagaagcttt	agctctactt
163921	taacttgagc	actctgcact	cctcgtgatc	agtgttttcc	ccagcgggtg	tctgccccct
163981	tgtgccacat	acacttgagc	agtggagtgg	cgttatagtt	tgccaatgct	gggtggatggc
164041	gtaactttca	gtttgggggt	caaactcgct	tcccacaggg	caaacacact	aaagtgccac
164101	cacaattccc	ttgcaaaact	cattcattcc	ctgaattctc	ccagtgcacc	aggaggaatg
164161	tttaaccattt	tatacctgcc	caaaagtggc	ctactgtatc	agttaggatt	gctttcataa
164221	aagaaaccca	atgacctgcc	tggcataaac	aaggttgggt	tattttccaa	cttaagaaat
164281	tggtcagagg	taaacagata	agaggtgatg	caatagcttt	atgatgggac	aactgcctta
164341	gcctcctctg	tctttccgac	ctgccttgtt	ggtctcaaga	tgctcctga	atgttcaggc
164401	agtgtatcta	tgtccaaact	aagaaggga	aagatgaagg	gcaaaaaggca	catgtcagcg
164461	gtttttcttt	ttatcaggag	acttctgctt	ttatctgact	ggccagaact	aacttatgtg
164521	gtcacccctag	ttacaaggga	gtctgagaca	gcatttttaa	ctagaatttt	atcagtaagg
164581	aagaacggta	aatggatttg	cagttgttaa	tgtgtaccat	agctatatatt	tcacaaatat
164641	tattgcaatt	ttgttagaga	tacgaataaa	tgcctaggga	taaggggatt	aaagaaaaat
164701	ccaacaaaat	tcacaatctt	aatgttggat	acaaagtgtg	gagaatggaa	actttgagaa
164761	tataatgtct	attatgtgga	tcatttcatt	ttattgaacg	tccacttttt	tgaatagtct
164821	ttacaacaac	tttcagcatg	tatctttgtt	gatagtaaaa	gtataatcaa	cctgccagta
164881	atatcttttc	taaaagttta	gttcatatta	aatcaaatag	ctgcttagaa	aactttatcc
164941	accagtcaca	gcctgctatt	caacatggcc	tcactctact	tttataattt	tacttcttcc
165001	tatttcctgt	catccagagt	ggatgaaagc	agacctccaa	tgtgaaaacg	agtttcttcc
165061	tgagtcatct	gcaaaattcc	acactcctgt	cacccatctg	atccaatacc	aaattcagca
165121	ttccactcaa	atttctgaag	cactgttgtt	gctaataaga	accactgtct	gtttttcaat
165181	cactgccact	agaagatatt	tttttaaaag	acatagaaac	atagcttcag	tagttcacia

FIGURE 1 (continued)

```

165241 gtattaaggc ctacaccatg ccaagctgag aatgggagag ctgcactgcc tgaggatgcc
165301 aggccctcag ctgggagcac tcactcactc actacgtgat tcactcccaa acaagagccc
165361 tgcagaaagc ctgattcaag ttcttggttc agcaaaattc aagtttctaa aatgtcatat
165421 atctttatgg cattggcaaa aagtcagaac tttctatgat taattcataa atgttactga
165481 tcaattctgt tccctgtaat ggcccaagct ttccaaaagc tggccctttt ccacaaagtg
165541 tcttctttct gtaacacca ccccatcta taccaaatga aaccctactc attcctcaag
165601 gttcaattct gatttcacat ttccacaaa gcctttccaa atcgctctgc tataactggt
165661 ctctattttg atcaaatata gcactttatt tctatttctc tcattgtcatt tatttctgcc
165721 ttatattttc gatcagtctc agcctctccc actagatcaa aagcttgact ctatactctt
165781 agcagagcat tttattttt tgtttgcatt gaattaaatc tggatttgtt ttgtctatgt
165841 gacagacaaa aagtaattgt gcaacatcat tgaccacaaat gtttttttaa agtctgggtca
165901 caaattatga ctgtcaaaat aataatcagc ccattgcttt ccattttgag ctccagagaa
165961 aattactaca aacatatgaa gggatgtcct atggccttga gcacagagga aagattgccc
166021 accccagtgt ctatacaagg ctttctactac tccactatgc agcccatagg tcccatata
166081 aattcagcag aagaatccag ttacacaacg attcttgagc atctgcaaag gatgaataga
166141 tttcctgaac ccaaaaattg ggacacagaa tctttgtgcc attccagggt agtcccat
166201 taaaatacag ctttgattgg atgcagtggc tcactcatgt aatcccagca cttggggagg
166261 ccgagacagg cagactgctt gagccacga gttcaagacc aacctgggca acatagttag
166321 acctcacctc tacaaaaaat acaaaaatta gctgggcatg gtggtgcgtg cctgtagtcc
166381 cagctatttg gggggctgag gtggaaggat cacttgagcc caaggggcag ggggtgcggt
166441 gagtcaagat tgcaccactg cactccagcc tgggtgacaa agtgagaccc tgtcttaaaa
166501 aaaattttt aatggatcag ggagcacact tatttagtaa acatagcatg tattccaatt
166561 aataaactgt tcaatgtaaa aagtgggggt gataagaatt aacattctaa ggaacaaaga
166621 gcagaagcta agaagggcaa taagaagggc aaaaaaaaag ttggaaaaaa atccacctta
166681 ttggcaaaaa aataatattc ttgcacatgt aggttgtgtg tgattataat gtatctcttt
166741 ttcttccttc tgcccaggt ctcagaggct aacgtgctat tctagagaaa catataacaa
166801 cttttctctg actggtttga aaaactgatg ttgttctcac tagagggatg gtgcaaagct
166861 ttaaaaaagc tatagagtga tgaagggaaa atagatgtaa gtgccaggat cctgtttaaa
166921 ggatcaagga aggtctaact ccaagaatgt ccacttaacg ttatatttct atttctacaa
166981 attctatctg gtttcatttc aaatctttgt catattctca aagctcattt tatttcttta
167041 aatatattaa acagacatat ttacattct gaaatagacc actccaaact ctgcagtcta
167101 cgtggaactg actctatagt gtgttttttc aattaatgat tgctcatgat agtttatttc
167161 tttatgtgtt ggggatggga ggagtccctc accgtggatt caaggccctt cagttttatt
167221 tgtgggaatt tattaaggct tacgttttaa ttattgtgtt ctccagaga gatttccctt
167281 tccttctacc aggagctggg attactgcca atccaagacc attttcaact gaacattcaa
167341 cttggcccta caggtgggtat gaactcaaac ccagagccta ccttcatgca ggcttatcgt
167401 tggtaactct catgggggac ttctcttttc cattcctccc acaaccaaaag cagagacagt
167461 tatatatgtc cccaccatgc cctctccaga gcagattctt cctagtgttt ccactcgggg
167521 ttaaccattt ggtgtgctga ctctatgtgg gagctctgac ttgaccttta cctgtcttg
167581 ggctctgttt cctgtgctcc ctacacatgc ctgggttaaaa cccacacttt aggccttag
167641 aggttaacag ataccacggg gaccaatgct tgttccaatg gtcacttacc cctcctgaca
167701 catagtgtct tgtcattcct accctccaag gaattccctt acatttctgc cagctcagcc
167761 atgcttttaa aactactttt taaaaaatat tttatctagc atgttcaggc ttgctttccc
167821 aagcacggtc tcccttaaca tctagtctgc catatagcta gaactagaac tctcccgccc
167881 agagatttgc acaggggctg taaacagtc catgtggcat gttactaccc tgggtcaaca
167941 tccaaataac aggttcatt tcaacctcta aaatcagtat aatgtttatg tatacatttt
168001 tcttttacct caatgctata ctgtttaaat atgggtgtgag tgtgtatcac atattataat
168061 ttttacaata attattttat ataattatac ttaattatat tcacatttat ttatttcttg
168121 aagcaagtac ctgtacttgt tccatgtaat cacacctaca gcacatggcc tctaccaatg
168181 aacttttaaa accaattcag aaagcaaaag gtaagttatg ttaaaacctc actagtctga
168241 ttacctattt ctagagcctc tgetcaacaa taagaattta aggaaaaata actaatatta
168301 taaaacaaag ttactatcat aattgtcttt tttttttttt ttttttagatg gagtttcatt
168361 cttgttgccc aggtggaat gcaatggcac gatttcggct cactgcaacc tccccctccc
168421 gggttcaagc agttctcctg cctcacctc ccgaataact gggattacag gcatgcacca

```


FIGURE 1 (continued)

```

168481 ccacaccg ctaattttgt attttttagta gcgatgaggt tttgccatag tggtcaggct
168541 ggtctcgaac tcccaacctc aggtgatcca cccacctcag cctcccaaag tgctgggatt
168601 acaggcgtga gccaccgtgc ccagctcata attgtcattt ttaaggtgcc tctcaagata
168661 tggcacatta ttattcagaa acagcacaat gcctacacct tctataacat atcatctgca
168721 ttatcataac acatgtgaaa aaccataatc cagaacccaa catctttaat aattttttaa
168781 atgttttacag tataggtaga atacaaagta tatttataac ctctcttggt ccaaaataaa
168841 tttgaaactg aaacctacta atatatatat aaattgatta taaatgatag ttgaaacaaa
168901 gtaagttaat ggaaaaatat ccaactatcc ttaacatttt catctcaaac attaggagaa
168961 atatctaate catgcagggc ttaaaaccta gatgatgggt tgatagggtg agcaaacacc
169021 catggcacat gtatacctat gtaacaacct gcactttctg cacatgtatc ccagaactta
169081 aagtaaaatt ttaaaaaata ataaataaat aaataaaaac attttctctc caaagaactc
169141 cagctaatta tgtttttaaatt ttctcataaa ttatattgat ctatgtagtc aataactttt
169201 aaaaggttac tgggtcattt attcattgca ggataattca tgatcatcag cgaaataacct
169261 ataactgtac tacattctca actattaaat gataatattc cattgcaagg agttttgtta
169321 aggtttctgc attaaatgat gtagaaatat ataattctga aaattttatg ttctacttgc
169381 ttgtttcaaa atgggcctgt gattaagaga acaaattttt taacgtttct ctgttaatgt
169441 acaaatctca ctctccaaag ttacaacca aatgttttgc atcattacac acacctgcca
169501 ccacctacag aaagaacaaa agttgtatc tctaaatacc aattgtatgt ggcagtgtta
169561 ttattttatc cacatttcta aaacctgtta caagtgaaaa aaagattaaa ataatttctg
169621 cagttctaaa caaagacacc aaagtataac tatttttcca attcggacct tcattaatgt
169681 acgaatgcca aagcacacta gttggtcttc ctatttaacc acaaacatgt caggctctgtt
169741 tggagtagtg ttgaatgtgg aaaagatgta tatccggttg gtaacagctt aaagggtttta
169801 gaataaagcc tacatttctg ggtggccaca aatcttagct aaaaattggc tgaactatac
169861 ggacgtgact tagagaggtt ggatttattg aaatgttcac aggtcgaggt gtcagaagag
169921 ttggccttct gattatttct gaaaaatcat ttagctgtct aagactttgg tttctaatec
169981 atggaactgg cccaatgacc tccaagcccc ttagctgtct acattcaaga attctgaatc
170041 tatagcatgt gtaacaattg aaggtagact ttccacccca ttctctaagc agaaggaaca
170101 ctccagctct ctgactgggg ttcatatatg cttatatcag gttaaatgac aagagcatgt
170161 cgaaataaga atcaaaatga gaggatttat catcctttgt cagccacatt cttatcctca
170221 atgctcagca acagggtcta gagtgtctaaa cattttgatg caataatgac aatgcagttc
170281 accaaacaag gccaaactca gtggtttcca ggaaactgaa aagagaaaga atgtggatag
170341 aaatagtaga gacttcaaat gatgaagaaa atgaatgaag ttcaaactga gaatcaaaaa
170401 gagacagaaa aaagacctaa aaagtgtggt caatgcattt ggaatgacta gaaccaggga
170461 aagtttttcc taacaatact aataaaacat ctttgagagt attttatcat tagtgggagt
170521 aatgggataa ggtcagattg attatttttt atttaaaatg caaaaactaa aatggaattc
170581 ttttgatttg tgaaagatag gatcattatg caacttcac aaaggtattt ttacctaaccc
170641 ctagaagtca aaaatgttct ttatttttta aaaaaaacia aaaatcttta ttgtcacagt
170701 ggaacactca cacctctgaa aaatgagaca aatcatgaat tattgttact attcatttaa
170761 attactcaaa aagtccatca ttatgttaat ggattaaaat atcttttaaat aagagaatga
170821 tataataaaa ttgccttaat tatggctccc ctttctttag gaataaaggc aatttaatag
170881 aaagtagaaa attatctaatt aaaggttaagt tacagcacat attctatttc ccttcagatg
170941 gttgttagta tatatgcgcc aatatacgaa tatatatata taacatagtt gataaaaatc
171001 tatcttaaat gtttattttt atgtttcgta tcatatattt tcaattaaaa gtcatatatt
171061 aatcagggtgc agtggctcac acctgtaate ccagcacttt gggaggccaa ggcaagcaga
171121 tcaacttgagg tcaggagttc gagaccagcc tggccaacat ggcaaaaacc catctctact
171181 aaaaatacaa aacttagccg ggtgtgctgg tgcagcctg tagtcccagc tactcaggag
171241 gctaagggaag gagaattgct tgaacctggg aggcagaggt tgcagtgagc tgagatcatg
171301 ccattgcact ccagcctagg caacagagtg agactcggtc tcaaaaaaaa aaaaaaaaaa
171361 aatcttctaa aagtcttcta ttgacaaagt ccacgtactt gtcattttta tcatcctacc
171421 atagaattaa atgggttaat attatataag ttgctttgac attccttctc ttgagaacat
171481 ttatttctct gggtttttgt ttggttggtt gtttggtttc ctggggcatt attactttga
171541 aaatattcct aaaagtagaa ttatacaggt caaaaaatag aatcatatta tagctgttgt
171601 tacatttatt gaccaattgt tttccaggag aaaaaataac ccattcaaac agctaccaat
171661 aatgtccaaa tatcgctgtc ccaatcttta caccactctt actgacacat aatgatatca

```

FIGURE 1 (continued)

171721 catttgtcat tcttttggct ggcctaacgg gtgtatatag ttcctacagg ttgtctgaat
 171781 atgaatttta attgctgata aggctgaata ttattccttg tgatgactca ctctattttt
 171841 ctaaataatat aaaaaccact tactgagata caataagcaa tgatctcttg tacatgtaga
 171901 tgctttccat atttttaaac attaatatatt ttctgtttat agacacaaca tatgtatatt
 171961 acagacagtc tgagatatata acaaaaagcac aagaataata taaaaatcac ccataatccc
 172021 aacacacttt tccctttaaa tactgtgtgt tacaaaaagt taatttcctt tctcgcctc
 172081 cccatccatc ccgatccccg ctaaaagtaa ttactgttaa gcatttggtg tatgtatatt
 172141 gttccaggac ttctctatgt ttctttctat aaaaatagaa tcacactgat cattgtcttc
 172201 tgcaacagge tctttttcct taatactcta tcacagacat cttttcaaga tacatagacc
 172261 tatctcatte ttttgatagg cagatgggtat tctaactctg gtacagtaag ttatgaaact
 172321 gggctcaaagc aaggcaaaaag ggtcccagct gatctctgag gtatatacat tacaattttt
 172381 cagttacggg ctcataggta actgccacca gttcccctgc ccccataggt atctgccacc
 172441 agttcctctg ccccttgat ctttcaactgc aatcacccaa cctctcctca cccctgcctc
 172501 aactcatcaa cctcatctc cagctttggg ggactgctga gggctgtcag agaaaccttt
 172561 cagccttctt gactggctcc atttgcgagc agggtttcca acctcccctg ggctacctga
 172621 ttgtttacca ttgctttttt ctcatcttca ctactcttat tccagtcctt tctaccctt
 172681 cttcaatccc cactctacce tcccactctg accatacggg gaggtcgcta atttacagag
 172741 taagtagaga acattcaaac atggcctcac ccacctctc ttcatctctc atcctgcctt
 172801 tcttggccca ccttcccttt ctttccccc aagtcaggaa aagggtacct tgggtctctt
 172861 ccaaggctta cccctccatc ttcaatgttg cctccatac gatgtccttc ccccttctc
 172921 ctggaaacaa gcttatgtaa atgccatatt aattatgtta ataataaaaa tgtatatagc
 172981 acttaaaatg tccagacctt cttctaagta cttatatat actaatttaa acttcataac
 173041 agccctatga ggtgagtgtt acagtaattg taattatctc cattctacag attagtgaat
 173101 tgaagcacat tgggctcagg ggacctgcca aggtcacaca gctactaagt gagattcaaa
 173161 ccccaagcag tctggccctt aaccaccaag cccctatat aaagcttata taataggacc
 173221 agggaaatga tttagagcag agtggagtta gaagactgga tgggcagaga agcctgtaga
 173281 gcgccccaac caacagaaaa ctactctctt gtttgtctgg tttgaagtac cagagacaaa
 173341 catcactggg atgggaaatg atggagagac tgtctgtggg ggctgtctta tgggtgcctat
 173401 tctatgaaag cggatactcc cattatctct tcattctaac atctcagatt gtctccatac
 173461 aagtagttaa cctggtggaa aaactcttat ccatggctaa agccactaca cctaatacca
 173521 tgggaaccaa ctaggcaagc tgcaggtggc tcagcacaaa ctccctgaca tgtgaaaaga
 173581 gctcaaagca cagctcctcc acctactcac catctacagg ctgcctgctt atgcctgaga
 173641 cactcaccta aacctccag gcaccccatg atacttcaac actctctcta cccagccagt
 173701 gtcactccag tctactttga atactagt cagacagac catttccaat gagataattc
 173761 taactttctt cctcaatatt taccagaaat acgtctctt ttggcttccc aatcaccatg
 173821 cattttcttc ctccactata aagaatcaaa ttaacattta acatgttagc cctttaaatc
 173881 tctttgggaa gttaccatct gtgatttttc taccaaaaca ctccccttc ctcctacccc
 173941 aaccaacaca cacaaaacac actagtcctt tctttgctgg gctaaaataa tacatgtagc
 174001 cccattaaca atccttcata tgacctgggt ttacatctct tctcatctt ggtcactcta
 174061 atatctaaat atgatecatt ttgcttact ctctcttaat gtgtcccaga gcagctgtat
 174121 gacactgttg actcacacta aggaatcct acagatgtgc ttcacacatg ctacttccag
 174181 cacccaagge tcatccttc tccactctca gagctgctt tcaaggcccc tatatgccta
 174241 ctgagtttca tattaatgt gtgagcttca acctcattcc attgtgtcta cttcccctag
 174301 ctctaatag ctaaatccac tgatgccaac actaccact cctacagact aaatcaaatc
 174361 ccacttcttc aaccagtctt gaccaagaca aatgtgtatc agcagcctca gcctaaccct
 174421 gaaacacaga attaatgtac ttttccagca tttactgaca aatcaatcct agatgcaggc
 174481 gtttccagta acccccaggg ttctataact gccccttagc tcaactcttc ttctcccatc
 174541 gctaaaacag gatattgggt tgatccctag atcaccaatt cagtggccac agattacctc
 174601 ttccaccagt aatcctgaaa ggatgttcca ttgcaggagg cagaataagg caaaactgca
 174661 aagttggcca tttctatca ttcagaaacc acattctctg gttggagggg agtagactaa
 174721 ttttgtatat agaaaagaca atctgcatt ctctaaaaa gtgttactaa actttcaaaa
 174781 gtaactttca atagaagatt taatccaat aataacaaat atttaggaaa cacaaactag
 174841 ttttagatac tatatattac aaataacatc actcttctc aaaaataagt gtgccaagaa
 174901 tctctggcaa aagaacagag gtcactctgc actactctct tgatttttaa gcaatgaaat

FIGURE 1 (continued)

174961	gaagtctctc	agacagtggg	ccccaaccct	ttaggcaata	gggggagggg	tgggggaggg
175021	gtatgggttt	tggatgaaac	tgtcccacct	taggtcatca	ggcattagat	tttcacaagg
175081	agcatgcaaa	ctagacctct	ggcatgtgca	gttcacaaca	ggactcgcgc	tcctatgaga
175141	atctaatagcc	actgatctga	caggaggcag	agctcaggta	aagcaagaga	tggggagtag
175201	ctgtaaatac	aaacgaagcc	accctcacct	gctgctcacc	acctgctgag	cggcccagta
175261	cctggtcctt	ggcccaggcg	tgggggaccc	ctgctctaag	aaactatgta	atattattcaa
175321	ggtcacagag	caggctatta	acaaaactga	aacaaggact	cagggtctcca	gattccccggc
175381	tgaataata	tctagtcate	tatgaggtac	agtgcgtttt	cagagtttga	aacacacagt
175441	atcttccctt	caacagggtca	cgtggtacac	aacatgaatc	cacaattatg	aatcagttta
175501	tgaatctaca	gttatgaaac	actaagcaat	gaaaacatac	aacaggggcca	ggcatgggtgg
175561	ctcaagcctg	taatcccagc	actccaggag	gccaagggtg	acagattgct	tgagcccagg
175621	agttagagac	aagcctggga	aacaaggcaa	acccccgtct	ctcctaaata	taaaaaaatt
175681	agctggtcac	ggtggcacac	acctgtagtc	ctaactactc	aggaggctga	ggtggggagga
175741	ctacctgcac	tccaacttgg	gcgacagaag	tgatactctg	tctcagaaaa	aaaaaaaaaa
175801	aaaaaacata	aaacagtaca	gatcaacatt	catgggcctt	tatcatgcag	acaacagcct
175861	ctgaaagtgt	tgactataaa	acacaaaact	atgaaaatta	aatttgtata	ggggaaccca
175921	aacattttgc	tcatgattac	tgattataac	aagtttatca	cacttttaatt	cacaaaaaaa
175981	gacattaatc	atgaaaagga	aatcaagtct	cagaaaggca	gtaatagcat	agttattaaa
176041	tgttaaccat	ttgaatecta	cctcctccac	ttactagctg	tataacctca	aggaattagt
176101	caacctctct	ttcgctccat	ttcttcatct	ataaaatgag	gactgtggta	tttatctcat
176161	ggagcagttg	caatgattaa	atactttagt	atctgtaaaa	tacttgggac	agtgcctggc
176221	tcatagttgg	tattcaataa	ttgctcttat	ctactcatgt	attattcttt	tccacttggg
176281	taacaaccaa	ctcttgacat	ttgtcatatc	cctttaagtg	tagccaaatt	ccataaggca
176341	ctggaatgac	atacgatttc	ttaaaggacc	ctggttttga	gccaaaaaatt	aaataatggg
176401	agagatgtgg	tagaaagtaa	cagctacatg	ttcaagggtat	gtgataaatg	gccaatgtgt
176461	tagtctgtct	gggcaacaaa	ataatgggtat	tttgggtggg	ttataaacia	cacaaattta
176521	tttctcacag	ttctagaagc	tgggaagtcc	aagatcgaag	agctggcagg	tttgggtgct
176581	agtaaggggc	catttccttc	ttgataggga	tgacttctca	ctacgtcttc	acatggtaaa
176641	agggggcaaat	gagtcccttg	gggcctcttt	tataaagtca	ctaatttcac	tcacgagggc
176701	ttcactgaca	tgacctaatc	acttgcccaa	attccccacc	tcctaattccc	atcaccttgg
176761	ggactagggg	ttcaacaggg	attctgaggg	gtcacaaaaca	tccaaaccac	agcagtcaga
176821	aatcaggaga	atggatcatg	gggagtgaca	ggcttagccc	gccttggatt	ggcagatatg
176881	gagtgaagag	aagtaccaac	agttttcaaa	accaatcaaa	ccaaaacatt	tcatttatca
176941	catcgaattc	acaatgtact	atcgttacca	ctacaatgac	tggccaagag	cctccttaca
177001	cttccctacc	attcctactt	cttttttttt	tttttttttt	tttttgagac	ggagtctcat
177061	tctgtcaccc	aggctggagt	gtgcagtggc	gcaactctcg	ctcactgcaa	tctctgcctc
177121	ctgggttcaa	gcagttctcc	tgcctcagcc	tcccaagtag	ctgggactac	gggcgcacac
177181	tggcaagccc	ggctaatttt	ttttgtattt	tagtggtatc	ggggtttcac	cttgttacc
177241	aggctagtca	cgaactcctg	agctcaggca	atctgcccgc	ctcggcctcc	caaagtgcct
177301	ggattacagg	cgtgagccac	cgcacccagc	ccattcctac	ttcttctact	tcacccatc
177361	aacagaatca	gagaaatctc	tctgaaaatg	gaaatagagg	tctccttgaa	atataatgcc
177421	catgagattt	ctcatgcaaa	gcaaataaaa	atgagctata	aaaaaagcac	gatgtattca
177481	ttcccttttag	atctgctgcc	taactctcat	tagggggcct	gagctcctgt	aggctctgtg
177541	tcagtgtctg	tgcagtgggc	ctgcaggcag	tgagggcagt	tcagtgtggc	ttgattacaa
177601	ggtgtgaaga	tgggattgtg	gcacactctc	aggggctctg	aagggcacac	catttttaaa
177661	tcactcacct	gatgtttact	ccatgggtga	gcatattaag	tggaataatg	agagaaggga
177721	gtgactggaa	acaagaaatc	ctacaaaaac	caggttataa	gtggctaagg	catgaggtga
177781	caacactgag	agaagggtga	taaaagtagg	gacaaaaaaa	aaagattttg	agtcttaaga
177841	aactcaggaa	gaatatggca	acaaactagt	cacattgggt	aaaactcaaa	gaagcttgaa
177901	gatcacccaa	gatgacagaa	tttagtagga	gacaaaaagg	ggttactgca	ggtaattacc
177961	gcaagaccac	aatcacaagc	tcagccttga	catgtttaat	tttaggtaaa	atccagggtat
178021	ccagctgaaa	acattctatg	ggtagtggga	aatcatagt	atgacagagc	aattctaaga
178081	ggttcagagc	atcaaccagc	tcacaactta	gttgctttta	gagttttcac	tcacagggaa
178141	tgacatgtct	ttatgttgag	caagaaaaac	atgaagtagg	ccaagaaaga	tttggaatgc

FIGURE 1 (continued)

178201 attaaaaatta actagttact aataatat tagtaattac aaacaaaaag agaatttaag
 178261 ctataagttc aaaacatagg gaagatttta gggagaacta ccaaattttt ccacgaaaaa
 178321 caaatatttg tgctactgtc agaatttag gattatggat tattattctg acttcacata
 178381 gtatcttaca cactatctga agtcagaata tgttttatat gttatttaatt gttttatatt
 178441 atataaattg cttaaattaa gaataatatc aaagtcctac gaattataatt tttagctttt
 178501 attcacattg ttactgacaa attcacatgg ctgattttaac acatgagaac agtcataaaa
 178561 cagtcaaaag agactgaaac cttttttggt acaagtgttg gttacaatta aactttaaat
 178621 aagagagatg gacgggtgag gtggcccaca cctgtaatcc tagcactttg gcaggctgag
 178681 gtgggcaggt cacttgagcc cagaagtctg agaccagcct gggcaacata gtgagaacct
 178741 gcctctattt ttttcttaaa aaaaattaat taaaacaaaa agacttacca ctttttccct
 178801 catcattttc agcttttcat caatctctct cagccgatta tgcagatcgc gttgctcttt
 178861 ggtgttcccta agtatctttt ctcttgaggt tacttccata tttctttcac catcacggtc
 178921 aggtttctaa tttaaagaaa aaaaaaaac atcattcaca ggctggaaat gtgctgtcac
 178981 ataccacctc aaagcaactg agccttgagg gttagctttg cttctcaaac aattatttct
 179041 tcccttcaaa acaatatgta taacgcttta aagtcttccc attttaggag gtaaatgtcc
 179101 aactgtacat ataacaagta ggaaaggaac ccaacttctg taatcatttg ggaagcagaa
 179161 ggagacagtg aaaacagctg gagccaggaa acaggaacct gggttctggt cctgctctg
 179221 atacttacca gcttgagacc ttggactttt ctttggaact caagtttctc atgtataaat
 179281 aagaaggaaa aaaccctgcc catccatatt attagaagca gctgtgtaat aatgggaaga
 179341 aaactggatt tggcaaggctc aggagttttg aatctttgcc ctgctggtt cctgactaga
 179401 ctgacctgag ggaaatgaat taacctctct gagcttcagt ttcacatctc gtaaaacagt
 179461 aacagtaata atagatctag gctaaaagtc atcacagtat gtagtaggca agcaacaaat
 179521 cttaatgcca aacaaatgag agctgaatat gtcctttgaa aagactaagt attacataat
 179581 gaaagtactt cattattgtc tgcaatatat atattgacag aaccatattt tcccaaagtt
 179641 aatgttattt ctgggtgata aaaatgggca tttcttgata ggaatttggt cctgtatcta
 179701 agattaaact tcttttctca catacatctg ctctgtgttg ccatataagt gatgggcagt
 179761 aatgacattt ttgaaatcac tcaagccata atcctgctac tccctcatto cttacataga
 179821 gatggtcacc aggaatacta tctagtggcc aatcccta atcctctctaa tcaaggcact
 179881 tgtttctttc tcaccgtctt agttaagata tctcatcat tcaccagcag tttttaaact
 179941 ccagtgaact tcagaatcac ctccagagcc caggaaaaaa tccgaaggac cagcctctac
 180001 ccaggagggt ctgattcaaa agggaaggac aggacaggcc tgggtggctca tacctgtaac
 180061 cccaacactc caggagggtca agtcaggagg atcccttgag ccagaagtt agagaccagc
 180121 ctgggcaaca cagtgaagcc ccatactctac aaaataaaaa ataaaaaaat atattgcccag
 180181 acacggtaac acctacagtc tcagccactt gggaggctga ggtgggagga tcaactgaac
 180241 ctgggagggtc gaggtgagc tgagctgtga tgcaccact gcactgcaga ctgggcaaca
 180301 gaatgagact ctgtctcaaa aaaaaaaaaa aaaaaaagga ctaaggacta ataaactgaa
 180361 gcacacctac ttgagaattc aagaactact gacttaggtt gctgccagag cctcctggct
 180421 ggtcttgatg ctaccagtca cctgtttgat tccattcttt gcagggaaga cacagaacaa
 180481 ggtgcaaagt attcatgctt taggacctgc caatctcttc atctcatttc ccaactgctg
 180541 agactcagac tcaaatgtgc agcaatatcc actactacca gttcccccaa tccaacctc
 180601 ccaactcctg agactcctac ccattttggg ccagttcaa gcatatttcc ataattatcc
 180661 ctgacatacc cacaaggac aaattattct ctacgccag ccacatgctc ctttattgca
 180721 cttaccacac tgtcaccacc tagacagtga catggtgac cctattctct gcacccaat
 180781 gcaaactata atcctgaagc tgtgtaagca ctggccaata gactgtaatt tgggttttctg
 180841 aaactttcat caaactagca atgaatttca gtaaaattct tattgtatac agttctacca
 180901 agcaaattat taagagtgcg tcaatttcaa gaagtgatta ttttatattt ggcttcat
 180961 ctacttctg gttagctttc atctctagaa gcactctgat atcgtttgga tctctgtccc
 181021 taccaaattc catgtcgaat tgtaaccccc agtggtggag gtggcgctg gtgggagggtg
 181081 attgggtcat ggggggtggag ttctcatgaa tgggttagca ccactccctca gtactgctct
 181141 catgattgtg agtgaatgag ttaccatgag gtctggtgtg ttacaagtgt gtagcacctc
 181201 cctcttctct ctctcttctt cttgctctgg ccatgtaaga agtgccctgc tccccttcc
 181261 cttctgcat gattgtaagt ttctgagcc ctccccaaaa gcagaagctg ctgctgctcc
 181321 tgtacagcct gcagaaccgc gagccaatta aacctctttt ctttataaat taccattct
 181381 caggattttc tttatagcag tgaaagaaca gactaatata catctagagg ctgaattatt

FIGURE 1 (continued)

181441	atcagaaata	ttttttaaag	gaaatcta	gttaggggga	agtttgga	aaatggatc
181501	aaggtctctt	tgcaatgcta	agcagtcagc	attttataaa	ctttcatgaa	gatacaccag
181561	ctatgaagta	ggacacatgg	taatctgcaa	aacaccccg	atttcatttt	taaattgaaa
181621	ttattttta	aatctacaac	tatgattttt	tctaaatctt	ggggcaagca	aagagaaggc
181681	acagaaagaa	aaaaattata	agttgcactt	aacaacattt	ttaaattgtt	cttaatcaaa
181741	accaccactg	tgaaaatgaa	caaaccacca	actgagagaa	aatgatcata	acacacaaat
181801	ctgacagagg	acttgatctc	agaatatgta	aggaactcct	acaactcgat	aataaaaaata
181861	atcaaataga	caataataat	taatcaaatg	acaatcaaat	tctataaaga	cttgacacaga
181921	tacttcataa	aagctatgtg	catgacaaat	aagaacatga	aaacctcttc	aacatcatta
181981	gtcactgggg	aaatgcaatt	aaaccacaat	gagacactac	tacacagcca	ctagcatggc
182041	ccagatgaaa	aaaactgtga	acaccaaagt	ttggaaatgt	gtgaaacaac	agggactctc
182101	ttacattgtt	tgaggagcta	tacaaaggta	caaccacttt	gaaaaacagg	ccatgtcttt
182161	tttttttttt	ttttttttga	gacggagtct	cgctctgttg	ccaggctgga	gtgcagtggc
182221	gcaatcctgg	ctcccggcaa	cctctgcctc	ccgggttcaa	gcgattctcc	tgctcagcc
182281	tcttgagtag	ctgagattac	aggcatgcac	caccatgcct	ggctaatttt	tgtattttta
182341	gtagagacag	ggtttcacca	tggtggccag	gatggtctca	atctcttgac	cttgatctcc
182401	acccaccttg	gcctccaaag	tgctgggatt	acaggtgtga	gccaccacgc	caaaacaggc
182461	catttcttaa	aaagttaa	gtttgtcgat	catgtgatcc	aaaaattcaa	ctcctatgaa
182521	tttatcaaaa	agaaattaaa	atatataact	aaagccttgt	acacaaatgt	tcatggcagc
182581	taaaaactga	aaacagccca	gatgtccatc	aatagagtat	gataaactat	ggtagacc
182641	tgccacagct	gggacaatca	gagtgtttct	ccttgagctc	catctctctg	ttaggttttag
182701	tcaaagttag	gggagagtac	aggacagaag	gagagagagc	ttaggggtatt	tttccctctt
182761	cccctaagtc	ttttgcatca	cagtttgggc	agtgatgtat	ccctgagatg	tgctgagttt
182821	tcttagattc	aactgcatat	tcatgtctca	agactaacag	aggacacact	tagagccact
182881	ctactcagaa	ggttataaga	caggaaacac	agcaggccag	tatcaggtat	cccttttcaa
182941	tgggagtgtt	tgctacagtc	catgccaata	caatataggt	ataaagagca	aaacagctat
183001	aagctgactg	tcttaaaatc	ctcatatcct	acaggagcca	ttatctcttg	aatggcccc
183061	ataggcacac	cgagtccaag	gacccagcaa	gaaacgtgcc	cagccacaag	aatcactgca
183121	gtcagagatg	gccaaaatac	agcttctcca	tcaggctctt	ataattctct	caatccaggg
183181	atcattttta	gcataagcaa	agtcgcctcc	taacatattc	agcatgccaa	cttttctcag
183241	attgccaaag	aaacagagtt	aggaaactaa	ttaccgctca	agcgtcacg	ctgagggggc
183301	tgggggttgg	taaccctttg	cccatgtcct	ctattattac	aacttcagat	ggccagttct
183361	tctcccacaa	ttccagctct	tgctgagctc	ccacacactt	tttcttcccc	catccacggg
183421	ggctagtctc	tcgggtgtcc	aacatccact	gttagctcct	ttaaatctat	ataaatagtc
183481	ccttcatata	attatctctg	aaatccaagc	taggtattcc	ttctgtttct	tgtcaaaaac
183541	tctaacatag	atatatacat	agatagatag	atagatatag	atacagatat	agatatacac
183601	acacacacat	atatatacac	acacacaaat	ataattatat	acatatatat	gtgtgtgtac
183661	atatatatgt	gtgtatatat	atatagtctg	tgtgcgtata	gagaaataga	ctggaaggaa
183721	atttaacaat	aattaacttg	gcaaaaatcc	tgatgattta	atcttatttt	tcttattttt
183781	ttgtagtctc	tgaatttctc	acaataaaca	tgttatcaat	ttcataagca	gacaaacctt
183841	tttttttttt	tttgagacac	ggtcttattc	tgccacccag	gctggagtgc	agtggcacia
183901	ccacatctca	ctgcagactc	gacctcccag	gctcaagcga	tcctcccacc	tcagcctctc
183961	aagttcaagt	ggctgggact	acaggtgcac	accacctcgc	ctggctgatt	ttttttgtat
184021	gaagaagaaa	tgggtttcac	tatgttgccc	gggtgatttt	tgaactcctg	ggctcaaggg
184081	atcctcccg	ctcagcctct	caaagtgtcg	ggattacaga	tgtgagccac	tgatttttta
184141	tttttaataa	acttttctgc	caaagccatt	tttgtcctgc	tctgacaatg	tgactctcca
184201	tacctaagag	gtatacacc	gaaggttgga	ttctagcttc	caatccaatc	agctgtgcac
184261	ttttgaggaa	gtcacctcct	ctttctgggt	ctcagttact	tctgagaaag	ttatttcccc
184321	ttctaatagc	ttatgagtct	ataattctct	acagttagac	ccaaaggata	tataacagct
184381	ttcttcagtc	atggcctccg	atggcataac	catatagttc	aaatattcga	aaaatactgt
184441	atgatgaaag	cagaggccaa	gagggggcaa	gaaaagggtg	ccactgatgc	tgatgaaaat
184501	tgccagctg	caaaaagctc	tgtgggtgcca	ggaaaagattc	tttttccaca	acaaagtgcc
184561	aaccagtact	atctgtcctc	gtgatcatca	ggaaatatct	tgatttctca	tagtagaaat
184621	atttaatcag	attatctgac	caacatatca	tttctgtgtt	tctgggtcat	acagggaatgc

FIGURE 1 (continued)

184681	cttcatggag	aattcaataa	aagctctcct	ccatatgcca	caagaagaga	actgtccctg
184741	aggccaagat	caatagatac	ttgttgattt	gactaattgg	ttgccaagag	attctgagtt
184801	tatccttaga	aaaattatct	gtggtgttga	ctaggccaaa	agggatcttt	gaagcaaaat
184861	aaactcattt	tcaaaaatca	aaaacagcaa	attaccgcga	gcttcgtaag	ttatctgata
184921	tgcaaaataa	gcatgcgtaa	ggattgggaa	aatacaaacc	tgccataata	aagacagctt
184981	gtcctatggt	ttcgagacaa	tgctatacat	ttctgtaggt	tcttgctatt	tcttgtcatt
185041	agatggatcg	tgtgtctggc	agtacaaaaa	gcagggaata	agataacttc	ggcagattgt
185101	ttttatcacc	ttggaataat	gccataaaat	gaaggaaacc	ttgactacat	cagaagctta
185161	acagaggaaa	gcaaagaaat	ataaacttca	cagtaatctg	taaaatggag	gtggcaaggg
185221	cagtttccca	gatttaactg	gagatctaac	agattggcac	tgagagtaaa	gagctctgaa
185281	gttaacttctt	gtttgttctt	caaaccacga	aatgcatgct	cctgtggctt	ctatgggttt
185341	tggaatatgag	cagatgggtca	ataagatttc	tgtgcctgtg	actagcatat	atttaaaaaa
185401	tcctaaattc	ctgccctcaa	ccaacacaca	cctaagtaca	tttgggttca	agtagagtcc
185461	atggccctta	ctggaactat	acaaatccct	ggacccaata	ataaaacatc	tttcagaatt
185521	acatgtcaaa	caatgggtctg	tatttcctca	attttagcta	atattgagac	aggaagacat
185581	caaaaaaaaa	ttaattgttg	ctgtcagcaa	taatagcatg	atcttggcaa	gaaaggagat
185641	caatacaaac	tacaattttc	ctcaatcaaa	tgtttgctaa	ttttttctca	agctt

184681-185641

FIGURE 3

1 aagcttctct aaactgacct tgggaatttga accaccattt ataccatcat ttctgcatgg
 61 aagtgtaatg taatttccaa gaaaatgact tggagatgaa ttgtgagctc agtctgatca
 121 gaagttggag gcagcctaga ttcttttggc ctcttggtcc ctttggcctc aacgtgcatt
 181 gttatcctca ttctaatacc ccagatgcaa atattgattg atgtttaaat ggcaactttt
 241 cattaatgag cttagagcac tttgtgaaaa tgtgtgctct tgccacctct gggacatctg
 301 cctaagttgt ggtaaggggt ctggctagga gttaagagcc ctggttctag ttctgaagct
 361 gccatacatt agcttaaagc ctttgtgcaa gagagaggag aagagctata ctttgagggt
 421 ccttgcatg ccattgtcta tgatttatga ttttatggtg agtagatcac agacagtgc
 481 aggatctttc catagctccc tttctgggc aaaatgcagc aagaatagtc caaccacttt
 541 actaggatgt ctttattttt atggcttttc caccaaatgt attgctttcc ttagctggcc
 601 tgggttttgg ggacagatat ttggctatta tgtccacaaa tgcccttgac aacaggcaac
 661 ggaggaggta ggagccagaa gctttgtaag ttccataact tacagtccct gctgggattt
 721 tgatttgatg aacctgtgtc accttaataa attatgaagg ctctctttt ccttgaatct
 781 ttcttctgtg ctttgttcca aaacaggcca aagaatgtgc tctagaaatt ggccatctcc
 841 ctgttttgaa ggtgaaagat tgctgggtgt caccacaaa aggagacctc tctattatat
 901 gtttctgtgg ttccaagctc actgtgagct gtgcctttga cttggcaaag gaattcatcg
 961 tttgaaaagc tatttctagc ccagcacagc tgttctactg ttaagttcag caaatgccac
 1021 catttttgca gactgtccta atacccccag agaaattatg gcaacctaa tgtgtgactt
 1081 tgggtgagtga acaaagaatg accacttgtc caaggtctcg cagaagtcac ccatgtaca
 1141 tttgattata ttctctctc tcttatctgg tgcaatgtag gctcttaaaa gcaaaactca
 1201 aaagaggttt tttgcactac gttccttccc tgatctttgt gaaatcaagg aatcagatga
 1261 taatagtgat aaactaataa cagcaacagc aattctgatt tctttgatgc ttcttatgtg
 1321 gcaggtaata tactagatac tttataaaaa ttatcatgct catttacaga tgagagaaaa
 1381 gaggcatagc aagatcgtgc aatttgccaa agaaacttct taactaggaa atgtcagatg
 1441 tgggaatttaa acctgggttc accttggtag aaggctcctc gtattccact atggcatgtg
 1501 gattaaaaata cggatgtgga gatatggatg tggatgggga gctctgtaac tgccctggct
 1561 ccgttttagc tacagatctt tgtaaggtt ctttagcagt ttgcccctaa ttctgctaaa
 1621 ataagatccg cctctctagc ccgttcccc cctacacaat gacagaactt cttccctcag
 1681 cctttcttct gtatctctgg gaatacccca gtggcagtgg caggaggttg cagcacacat
 1741 aactcatgcc actgcttgcc ctccctagc ccgctctgct ggctcctga tcacctagat
 1801 gatgctgtct ggagctcccg ctccagagcg cctgtcaatc tgataaagct ctgggatggc
 1861 gctacactgc ctgtgacctc tagttgacct tgggccatct ctccctcctt ctccagctac
 1921 ttacaagccc ttgatgtccc tgtctatccc aggtctctct ctggctggag gggaaagaac
 1981 tcaaccttct gtacctgccc cttttgtgtg tttcattttg tgtgtggatg gtggaggtgg
 2041 gaaggtgcag gccggcagcg gccttccctg ggccactct ggggttacag ttgttctgt
 2101 ttctccctat actcctccca tccagtgcac gtaagccccg ggggtgctgg atcagaatgg
 2161 ttcacatggt ggagtgtgtg gctcagatgt gtggctcttt ttttggctct gctactgaat
 2221 gactctccag ggctccttct ctttctcag ttaaagggaa gtttctctcc cagggtcca
 2281 tgggtgacat gtctgtatat gaaaacccac agactccagg aaccacagaa tcagggaagtg
 2341 tggctcaagg gagcaagggt gcatttctc acagacactg ggtgtccaaa ttccaggggt
 2401 agtcagggga ggtgtatgtg tgtggagtgc tggctggata atatttcag ctagctagct
 2461 attgtgattt tatccatttt atccctgctt tttctcttgc cctcctgcac cggccctac
 2521 ccgccacctc ccattcaagc agataatagc tgactctgtg ctccaggctc acaggaggtt
 2581 tgcagcaagg cacaaagcaa agactttgct tctaagcttt ggaaacaaaa gcctaagccc
 2641 tcagcagaag aggatctgat ggaaaacaaa aacaaaaaca aaaaacaaaa gacagattgt
 2701 cctgaagaaa catggaagga aagaagcaat ttccccaaac tagaaagaaa tccatttgg
 2761 ttaacaggag gtgaatgcag aggtgacaga gagacagatg gggctccagg agcacagaac
 2821 caagcactgc ttctgggag agtgatgtca gcatgactca aaggcggcct cagcagagat
 2881 gcttggggac ccgggagcca cagcacagag tgactagacc tgaggggtca ggacagccag
 2941 gcaagggcaa ggctgtctca gggatctgta gacagagaag cgaggaccag gtgggctca
 3001 cccagaggc cttggcactg cgtgagctcc agaaactctg gcgttaataa ccacgggca
 3061 gggactcctg ggaaaactga ggttatgcat tttttgttt attttttatt tttctgcca
 3121 gccagaagaa ataagagctt ggcattataa attaagttgt tacagaaaac aaaagaaaac
 3181 tcgtcaacct tgtgtttgtg gactgggatt cagccctct gccacctgc ctcgtacccc
 3241 tcgtgttcac ccagaaggag ataagagagc ctgtgctcgt actctatcct gggcatttgg

FIGURE 3 (continued)

3301 ctagacgcag gccttctgtc ctggacccag gaataggtag cattgaccac gaatgcttcg
 3361 tattacactt tcttttccat ttcaataatg attcaacaaa acagttttta atgaaaagca
 3421 ttcggtaaac attgttcagt ttttccagga ctttaagctt cagagggatg ccacaaaatc
 3481 atcttcagag aagtttatgg tgccttgaag gctgagaaaa caagagtcct taagaaaagc
 3541 tctgattaaa cattgtagag cattgtatct cctgccttgt aattgtgata gatggatagg
 3601 ttttgttttt aaacaacacc tcatctttga aatgactctg ctggaaacct agcatttttt
 3661 ttttttttca gaatatattcc actgtgtata ttaaattgac taaacattca gaagaaggag
 3721 cacaaatcag acccaggaga gtctgttgca aagtgttaag aggagagagg agatgttacc
 3781 aatactgaaa atacactaaa attctgatga aagtaccaga ttcaatccca tgcaagcctc
 3841 ttaggaacac tcaaaactgtt gaaaaataaaa tggaaaaaag cgattacaca ctggcaccag
 3901 catcgaattg tttaatgaac attacatggc ctggatccta ttaactaatgt ttctctctct
 3961 tgacatatgt ccactgatga aggaaagtct tttttgggtt gcaaagtggc tttcagaatt
 4021 tggacgctct gaaagataac aaacaggcaa catcttttac ttcttgctca caagtaaatt
 4081 tctggcagtt tttgacaggt cataaacaca catgaaatgc taacacgtagt ggggtgttag
 4141 atgctttcct taaagttgaa aaacattttt aaaataagtt tcttatgtc tacttttttc
 4201 cacattctca actctgacat tcaaatgcac ttcacgaacc gacacgtaac aacatttgaa
 4261 aaccaaattt ggaaaacctt cactgaattca gacttactc ttagagaatt ttcaaagcat
 4321 tcttgagaca agcaaatcga ggctgtgaat aagattactg agaataatgc ttacttaaga
 4381 gaaatattca tgtttgttag atatgcacaa gcagttaatt acatttggag ttgtgcttgt
 4441 ttaggtcctt ttgtgagagc actgacactg tttagaactt tctagaaaag ctttcatcca
 4501 ttgggttctg tgacttactc ctctcctgtt tttccaatgg gctccctgga cgcactctct
 4561 caagctcttt tgtgggtttt tcttctctac ccagctactt caaagggtgga gttacttagg
 4621 gtcccatcca taaacctctt cttttctcac tccacaaact cacccaaagg tttgaattaa
 4681 ctatatgcag ataagtctca tgtttatgtc tccagcctca atctcttctt tgagctccct
 4741 catgtgtatc ctgtcttagt ggggtgactcc actatctatt gctagtctaa gccttaaacc
 4801 tggaatttat gcttaattcc tctctccctt cccatcatca tccataaatat cactttaaac
 4861 atccaccctg tctcttccca ctgtgtgcaa cttattcctg ccatcatcct ttcttgtcca
 4921 aatttctata gcaatctttt aactgatcca tctgcttcta aaacctttct cctgctaaga
 4981 ccacagaaat ttttctagaa tgcaaatctg aactgtctac tctctgcta aaaaaacttg
 5041 ttcagggccg ggcattgatg ctcattgctg taatctcagc actttggaaa gctgagacgg
 5101 gtggatcacc tgaggtcagg agttcgagac cagcctggcc aacatggtga aaccccgctt
 5161 ctactaaata tacaaaaaaa aaaaaaaaaa aaattagccg ggcattgctg tgggtgcttg
 5221 taatcccagc cacttgggag gctaagcagg agaattgctt gaaccagga ggtggagggt
 5281 gcagtgaacc gagatcgccg cattgcactc caacctaaag gacagagtga gactctgtct
 5341 caacaacaac aacaacaaca aattgttcag gactctcatt gccctcaaga taaagcccac
 5401 acttgcctta ggctgacaag ggccttcatt atggagacca cattocacc tcagcataac
 5461 tcttgacac cagactgaat gcactgtttg cattttctgt tccatctgat tagaatgcca
 5521 tccccctcac ctccactctc cctggatct ataaagctt ctccatcta agatatcacc
 5581 tccccggga agcttctcat ccttcccaag attgaataag ggacctctcc tatatgcttc
 5641 tatagtactt acatctata ttacctatat cacagcactc aacactctga atttcagcag
 5701 cagctttatt catcagtttt ctcagatgat tgtaaaaacc ttcaaggat ctctctcatc
 5761 atatctccaa taatcagctc attctagatt cttgaaaaac atttgacaga tagatgaatg
 5821 cagttacttt aaagatctgt ttctcagttt cctgattcta aattctgaac agggagaatc
 5881 taatttgccc agcttgggtc agtttccatc cctgggtccaa tgagctgagc taggggtgtg
 5941 agagtatgga tggaaatctt tagaaaggag tgtgggggtta gaagcaatgg gtggcatgca
 6001 taaccaaatt atacaatgtt cttcattgaa acaataaaaac tgcattgtag tttttaaaag
 6061 tcatatgtta tatatttttc attaatcat gagcctcctt tcattagtct attataaaaa
 6121 ggtatcactg taccttctat ttaatacata aaataaaaaat tatacagtca ctttttactt
 6181 attattaggg actcattcat ccaactgttc acaaatatta ctaagtacct actatgtgcg
 6241 aagctctgtg ctagggaactc ggtagatagc agaaaataaa atcaaatccc tgctgtcatg
 6301 gtgcttgctt taaaaaatgt aaaacacaga tgcagcattt taaattagaa aacttaatat
 6361 gaaagaagac aataggatgt tctgcggaaa ataactgggg ggatgtgatt cagttatgag

FIGURE 3 (continued)

6421 agccaaggaa ggattcccaa tcgggggaaa aaattacatc aaagctaaga tctggcttct
 6481 ctgggaagaa tgccctgggat tggagagttg cgggaggaca aggacggaac tggagatccc
 6541 tgtggagtta ttatgatact tgcagcaaaa gactatgacg cctatgactg ttgatgaatt
 6601 caggagattc tgggagccag aactgattgc actttgattg tttctatgta gggatgaatta
 6661 aaggtgctaa gaataacagt tggggtagag gttaagcaca tgaactctga agctagattg
 6721 tctgagttta aatcccagtt ccattagtaa gttatgtgac cttgggcaaa ttacttaacc
 6781 tcaactgtgcc ttgggttccct catctaaaaa gtgggtgata ataatagtag ctaccttgaa
 6841 gatttggttat gaggattaaa caagttaaca tgcataaaac atttcaaaaca ttgcctgcat
 6901 gtcgggtttac ttacaaactg aaaaagaggt aagtttccat gcttctggct tgagcaatgg
 6961 agcgatacag gtgacattta ttgagatggg aaagactagc agaaaaagag actttgatgg
 7021 actgaagatc acagtttagc cttagatata ggcttgagat tgctcagacc tcttggacat
 7081 ctctcttttg gcaggagtct gatctcagaa gagatccctg ggctggagat gtcaatctgt
 7141 aagacttcca aatacaggca acatttgaag cccagggatt ggaaaggcaa gcaagggaaga
 7201 gtgtgtagag tgagcaaagt gtgaatacag ggccaaagac tgaccatgag agttccgaaa
 7261 gccaaagtga gaatgagggg ccaactactg gtttatgtgc agtgctgtaa tgcacatgca
 7321 ttagacaagt ggaaatagaa acatctggtta taatttgaat ataaggaata ttcaaacaaa
 7381 ggacatccct gtatttctat tttaatggag cttaaaactc taattttctg tttagccctg
 7441 ttacattgat tttatggctt ctctatccc tcatttgaat ctctgatcca aagatttaaa
 7501 agaaagtctg gagaatttgg agatatgagt agtttcatgg ctggatcttc aatggcgaag
 7561 acagaagggt gggcataaac tagaaccagg tgatgaaatg tcttataagc tgtcatagga
 7621 gtttaaacct gataacagta aggagccatt caaagtgtta agcaacagtg aagcacgatt
 7681 atttcgtatt tgagaaaagt ctttgttgaa caaggtagaa aatgcattga aaaggagcaa
 7741 atccagaagc tgagaggcca atggtgcac tgtaacagta acccaggaaa gaaaaggcaa
 7801 cacaaaggca aagaaaagac aaaccaggac tgtgggggag gccaacgggt ccaatttaag
 7861 taatgaccac agcaagaaac agacaggatg aggtgattga ctagttagag aaggtaagag
 7921 agaggatgac gccatggcct ctgcttttgt tcagactatt ctgtgccctt aaaatattac
 7981 atttttccta atccatccct atgctccatg cagcaccctc aatgtcttct gtagggataa
 8041 ccctttaatt ttcaaataatg ttctcatcct gtctcctgat gaatgcatgc atgcatataat
 8101 tagctcaagt ggaaaaataaa gatgcgactt acttcatatg cactctaggt cccaggcctg
 8161 ggtagaaaaa aaaatctatt acctaaccac cagaagctaa aatcctccac aaagaagaaa
 8221 atacccagat gattgatttg gtctccacat cacctggctt aactaagtat agaagtatta
 8281 atagtctaga cctattttat taaaataatt tagctcatca ttgtgacaga aagcccaggt
 8341 ttcaaacagc aatatttttg taataaatta gaagtccctc aacaaaccct gttaaacccc
 8401 atgtggattt ccgttaattg ggaagatttc ccagtgcact agcttaacac tgctgctgca
 8461 cattaatttg ctttccagct atacataaat aaataagtgg ctgcctcctt gatgtgagct
 8521 ggaggaccca ggggaaggca tttttacctc taggtatctt cccagactt cttatgctgt
 8581 ttataattat catattcatc atttttttct tctctctctt cccaatttct ttcttcttag
 8641 tctctcttga acctattcct atcagaactta tgccccacc attccatcaa aactgcttgt
 8701 caaggtcacc aatgacctcc attttgctaa atccaatggg caggcatcag tcttcattta
 8761 acatgatcca tcaattgcat tcagtgcagc aaatcaccac ctcttccctg acacacattc
 8821 ttcatattggc atcaagaata acacattatt tccatttttt tctacctcca ttggggttag
 8881 ccttcccttg tggtgttctc catggctctt tagtggttcag aatacctcag ggctcagttc
 8941 ctagtccctt tctctataac ttaaaccctt gatcgtctca tcccgctc tgggtattaaa
 9001 taacaccctt accctaacaa ctcttcagtt agtacctcct ggtctccagc cttactcagc
 9061 atctccactt ggatgttcaa tagacatctc aaactcaatg tgtcaaatat ggaaactcctc
 9121 atctcccttc aaaaactggt ctactcatag ctttccctat ctctctttct ctcacaatcc
 9181 ttaagccagt gctcatgcca aaaatcttga agtcactttt ctctctttct ctcacaatcc
 9241 acatctaata ttgttgatag tgtctgcaag gtacaccagc aatccattct cttcctacct
 9301 ttccactgct accatcctga tccaccaact cttggctcaa agtcactaca atatactccc
 9361 agcttctctt cctgcttata cacccttgct tagcaccaga accatagctc aagtaactct
 9421 tcttaaaaag taatcagtg catcacttct ttactcaaaa actgcaatga cacagggtaa
 9481 aagccaaagc cttaaaaaat ccttcaagct cctacctggt ctgctccctc cctgagttt

FIGURE 3 (continued)

9541 caacctcacc tcgtgggtct cctgtctcac tctgtctctg accactggcc tccttgctgt
 9601 ttctgagaca tgccagacaa gctctatgtg tgccctctgc cttgaatgct gtcggatact
 9661 agaggccagc cccacccttc tttcatggct ttgttcaaat gccatcttcc caatgccact
 9721 taccctgcca tatttcatac tgctacttgc cccagcccca gtgggtccag cctccttgcc
 9781 ctgctttact tttttctttt tccatagcac atactacttc ctattatgtg atgcaatctg
 9841 cttattttatt aggttccacta tcaactgtca tctctgctgg agtgtaagaa tcacaaaggg
 9901 agagggtctt gttttgttca ctgatgtatc ctgaacacca agaacagtgc ctggaacata
 9961 ggaggcactc agtagatgct tattgaatta atgttttagg cttcaatcac aaggggacct
 10021 agtataaggg aaatatttatt ggacaggtga tacattcagc ttcagggttc caatctgagc
 10081 cattaacata tcttacaagt ttgaacgaac tacaatagag atgtctttga tccatttctt
 10141 ttctagctca ctcttccaac acatttttca tccagtgct ctgggtctct cctcaggaca
 10201 ggggaatggat acagtcaata gtgtctgttc aggggtttat cctccttagag taatttggtc
 10261 ctctttctcc ttattcccat gaaatctgaa ctgtgatcca atttctcaag accttaaaac
 10321 taaaaaaaat gagaactagt gaccccatct taagaaatat tgcagattgt aaattaagcc
 10381 aatgtctgtg ttaaacacaga tttagctcat tgacatctag aggaaatata aacgattggc
 10441 agaactttat agcaagagag aaggatacgg tatagtggga aacccaagca aaaagaggga
 10501 ttgggagctc tatgttacta gaggctaaca tgaatgtccc agaggagcga aaaagaggga
 10561 cacaatggga aggaacagat catggggcac acaccttatt tttgctaag gtggacaact
 10621 gggctaattc accaaaggtt ttgtgagccc cccatcgtgc tgctggcacc taggatagcc
 10681 ggggtggaggc ttctccaaca attctaagaa ataccatgg aatgagaaat gccaggcag
 10741 atagtgtgca agcgctatct cccctggagc tcttctggag accctgggccc acttccacaa
 10801 tgctttctac actgagaaca ctctacactc tcaacttaca ctgagaacac tcattaggtat
 10861 caacactgag aacactcatt aggatcaact agaggcaggt tgagttttta tttcactaag
 10921 taccacaagct cttgtgcata attaatcttc aaaaaactaa tttctttccc agcactgaat
 10981 tacccttggg caaaaagaaa tcaacatgat aaataccagg cacatagtgg gcatttgaca
 11041 tcttctctcc catgtctctc gttttctctc agtaccacc ctcccaacct cctttgagat
 11101 gactattttc catatttgct tctttcatgg catatctgta ttgcttcgta ttggcccca
 11161 gatgtcagat tggtctgcat tactccaggc tgaatcattt gatttctgt ccatgttctt
 11221 aacctttcca gatcctcttg tatcatttct cagtcattcc cgtgtttac aatacctctc
 11281 aattttaaag catctgcaaa tctcattaac aaaccactga ctcttctcc ctcacgatca
 11341 taggacatgt tgaatgaaac aagacctgac agcaatctc tctctccat ttgaggcacc
 11401 atttctctgg gttactttta cttattatca tttttatatt atattgttat tgcacatgta
 11461 ctccagacct aggcataatc aatatgtgaa aatcgggatt catcattttt tgaatttaag
 11521 ttattcacag gctgggcgag gtggctcatg cctgtaatcc cagaactttg ggaggccgag
 11581 gagggtgggt catttgaggc caggagttcc agaccagctt ggccaacatg gtgaaacccc
 11641 atctttacta aaaatacaaa aagtagccag gtgtggtggc ccacgcctgt ggtcccagct
 11701 actcaggagg ctgaggcacg agaatcggtt gaaccggctt ggtggagggt acagttagct
 11761 gagattttgc cgttgcaact tagcctgggt gacagagcaa gacctgtct caaaaaaaaa
 11821 aaaaaaaaaa aggttattca cctacaaaaa acttaattat attaatccct tttactagtga
 11881 cttttcttag tatacttaaa atactttgct tacaagtaa taattacca acttctcaag
 11941 gctgggttaca gccttgaata taggttttta atacccttta gctacatctg tctgtaagaa
 12001 attttttctt agtagagttt ttgaataaga ttcaaattct ttcacatcaa tattagtaag
 12061 catctgagga acacaccagt tttctcactg gcgattcatt ggatcttggc ttcaactttt
 12121 ctacccctt tctctgatat gctcaaaaata tttccaaatc tcaactattt tcttctctta
 12181 aaactttttg tgctccttct atgtgccaag cactgtgctc agtgctgggg tacaataaag
 12241 aaaagagtct ccattctctg gagctgttaa tccaagaaaa aactaaaggg aagtagtact
 12301 tttgagtacc tgccatattc tggacctgca atgtatatata tcccttttac accccacaga
 12361 aaccccatct aatagctgag aaaacaggag ttcagagaag ttaattaatt tgcctgtgat
 12421 gcagaatata aatagacaat ttacagaaga aatacaaaa gacgatagac atatggaaaa
 12481 aatactcaac catgcagtta ttaagtaact ggtttattaa gtaataaaaa tgctactttt
 12541 ttacctatca aggtggtaaa gagaaaaata atactctacg ctgggtgggt tgcagtaata
 12601 caggctctct tgcatagggc tgcagggaac ataaaggggc aaatcctcc tgagaaactg

FIGURE 3 (continued)

15781	ctagaacccat	atactttgtc	ccataaacga	agcagtaaaa	aaacctgaat	atcttccctc
15841	caactaaaaat	tacattatctt	ttctcagtta	aatcttccat	tcaattacaa	tggactatca
15901	ctatactatc	tgggtgagca	aaaggtataa	tttacaagaa	acttacagag	ctgaagggat
15961	gagagaacta	taacctgca	aagttgtgtg	agcatctgag	gtcctacaca	aaccagtggc
16021	ctagagaaca	ggcctctaac	ctcccttagc	ctggagtggc	cagagcacaa	gtggtctcaa
16081	cacataacag	aaagaatgga	cattttctgg	ccaggcacgg	tggctcacgc	ctgtaatccc
16141	agcactctgg	gagaccgaga	cgggtggatc	acctgaggtc	aggagtcca	gaccagcctg
16201	gccaacatgg	tgaacccccg	tctctactta	aaaaaaaaaa	aaaaaatacc	aaaaaaaaaa
16261	aaaaaaaaatt	tagccgggta	agggtggcag	tgcctgtaat	cccagctact	tgggaggcta
16321	aggcaggaga	attgcttgaa	cccagggtgg	gaagggttgc	gtgagccgag	ttcacacccat
16381	tgcactccag	cctgggtgat	aagagcaaaa	ctctgtctca	aaaaaaaaaa	aaagaatgg
16441	acatttttta	aaaaccctac	atgtctatag	ctcagtccca	gccctgaaca	accacattca
16501	accagcaaaa	aattcttctgc	gatgaaaaga	tttacctcaa	agaataaata	acattaaatc
16561	gagaattcat	aagcagtcag	gagatttgag	atctttattg	agaaaatagc	tattttgaca
16621	ttatatccag	tttctcattt	atcagaataa	attctttaca	atattgatca	ccatcaccac
16681	tttagtgtat	ttgtacatag	tctctgagta	aaatatattc	acactcggca	aggctagaat
16741	attgaaatta	tggccaacat	tgcttacttt	aagattgttt	actttataaa	gaagctagag
16801	tagttgtgca	actagaacag	atgtttttta	aatgtttggc	attcaaagat	aggcttggtg
16861	ggacaaaact	aatatgcata	ctacatacat	atattttctt	tcttctttac	tgtcaatctt
16921	tcagaacagt	aacatgacat	tacaaacacc	tcaaattccc	acttcaaaat	gaacagaaaa
16981	atggaaaaac	attattttccc	atttcataaa	attaaaaatc	aagtcagaag	agaagtaaaa
17041	ctcattttta	tgcatttaac	ttaaaagctt	gaatacacga	ctcctcctag	agagaaggaa
17101	gccagaactt	cagaagtagc	cagtgggtcca	aagaataaat	ggccccatga	ccttctctat
17161	ggttcatgac	ttactgaggg	ctgatgcaaa	ctctggcaag	ttatttttca	tgattttcaa
17221	ggatctggga	tatgtaaacy	aaatgattaa	aagacatttc	tctgaatttg	caagaagacy
17281	actgaagaat	cagaacaaag	atccaacggc	ctttcacgtg	gctacatggt	caccattaca
17341	ccacaactca	aaaccacag	gcgagctttc	tctcaaatac	acattcaaaa	tgggtgtcca
17401	aataatccaa	ttgtatacat	tgcaaagaca	cacaaaatgc	ctccttacac	acgattagta
17461	atctggtttt	agactctgaa	gtgataccaa	acatattttg	ctaaccctct	caaaattgca
17521	ggcctagtga	ggttttaaag	ttttaggata	tagaatctgc	ttagaattta	gtgaaaacta
17581	tgaaccgtag	actgtcttcg	gtaatgaaca	aaactggaaa	atattaaact	tcctttgctt
17641	tgtcactgag	caactataag	ctttctatga	tgtatgtatc	atactagctt	gtatgtgact
17701	ttagtgtcat	aaacacccat	tgcctttttg	gcacttttaa	agtacagcca	gaaaagggtt
17761	ggaaaattgt	tctggaaata	caagttgggt	ccctctgtct	catggatgct	taggaactgg
17821	gtagtctgct	gaaaccacca	gttcagcaga	cccttgtaga	gctgttcccc	gccaaactgg
17881	atcctaagga	aacaggctgg	aagagccagg	ggcctccctc	acaaatgcct	aaataacca
17941	catatctatg	ccgacagcca	tccctctctc	aatgccatgg	tccaaggagg	tcttgacctg
18001	tctcttccca	ttttactacc	actggetaga	ggggcaccca	acaacaagaa	acctttgtaa
18061	tgagtatgaa	ctagcaaaaa	cactgtaggg	cagcattttc	ttagggtgat	ctctcagaac
18121	ataaatccca	caagatacct	acttttataa	aaatctggcc	ggggacagtg	gctcatacct
18181	ataattccag	cactgtggga	gggtgaggcg	ggcagaatca	cctgagggtc	ggagttcaaa
18241	atcagcctgg	tcaacatggt	gaaaccccat	ctctactaaa	aatacaaaaa	ttagctgggc
18301	gtggtggcag	gtgcctgtaa	tcccagtaaa	ttgggaggct	gaggcaggag	aatcgcttga
18361	acctgggagg	cggagggtgt	agtgagccga	gatcgtgcc	ctgcactcca	gcctgggtga
18421	caagaccaag	actccgtctc	aagaaaacaa	aaacaagaaa	tccatattaa	aataaattag
18481	ggaaatgatg	tataaaatag	agggtgcttc	tggagattta	aaatgcacat	tagcgtatca
18541	aagggtctgaa	aggccaacag	taactcaact	ttgtctaacc	cactattttc	caaacttact
18601	tggccacaga	acctcttatt	ctcctaacaa	tatattctga	caaaacactc	cttcaggaac
18661	tgtttcaccc	agaaccaaac	agggtgagtt	taaaaaatat	tatagcataa	tttcaaatga
18721	ttaataagga	tacaaagaga	cttattttcc	tgtcttttgt	tattttgtct	acttattttg
18781	ttctgaataa	tcttctatca	catttccctc	tctattcaca	aaccttcaac	togagttacc
18841	ctttctgata	cctttgttca	agaatgttaa	ttcttatcag	aaatccatgg	cacactagtc

FIGURE 3 (continued)

18901	tggaaaaaaa	taattttgtg	tcttttttaa	ttcctagagt	acctctccac	ttcaatcaca
18961	attttaagtc	agggcaggta	tctgtggctc	ctagcaaaca	ctacacccca	acaagagttt
19021	gggagccaaa	ttattttgca	aacccttaag	aacacaaact	aaaactaatt	tatccttata
19081	tctctgcaaa	aattagcatt	ttgaacatcc	aacgaaactt	caagtttgag	gataatgggc
19141	ttactgacct	gacctttgat	ttcacgtaac	taacaacaaa	tttcttttaa	atctggttaa
19201	gaaatattga	aatattgaaa	agtaaacata	aattccacaa	agctgaatgg	cagcaaaaaa
19261	tattttctta	catcaagaac	atatacaaaa	gatgatcatt	accacccaaa	ttatctctgt
19321	tgctcaggat	ttcagttata	aaaatagcca	aatcaagaca	aagacaatta	cagcttaaaa
19381	cgaaaagcta	cacctttctt	attaaagggt	agcatcttgt	cacactgtgc	atatggagag
19441	agaacaagta	caaggcacgg	gagaactacc	atgtcaaggg	acagagcttt	ttcaaaatat
19501	tttatcctca	gaagtaaacc	ccactaccat	agaaagaaaa	aaatataatt	agatatttta
19561	aatcacagca	tttttgactt	cctagggaaa	aggagttttt	ggtttttaggg	tttttttttt
19621	cttttctggt	aaggcaaaat	agatctttag	atatcatttg	ttacaaacat	gagtttttct
19681	taagaatgaa	ataaaaattc	tatttaactt	ctatcatata	tttattcaac	taagttgaat
19741	actatgttta	gaaaatttaa	gttttaaate	atggtttata	tatagataat	gatacattta
19801	atctatgaat	ttacttttaa	acctatttta	ttttgaaata	cttaagactc	acaagaagtt
19861	ataaaaatag	ttcagagaga	ttccaggtag	ccactgctta	gcttcttttc	ttacatgtga
19921	agcattttata	tctaggtttt	aaaaggggtg	aagtttttga	cagttgatga	aaaactgtca
19981	aaaaattgta	acaagcctgg	taaatgcata	tttttgaggg	aggttctaag	gaaacactac
20041	caagttcaag	taccactttt	atcacatgca	gctgccttaa	ccaacagggt	ttctaagata
20101	ctatccccct	tacctgtttc	tgctcttttc	aatgggtgtt	ttccattttt	acagacttct
20161	gaaaatttta	gctttgattg	aaataagctt	ccccattcct	tcatgttaat	atatctagca
20221	atattgaata	gaaattataa	atggaaataa	aaatgcttgc	ttttataaaa	tctccagtct
20281	cgcagcaccc	ccaatataat	acaaacaaac	ttaagttgaa	atttgggttg	ttaatgccca
20341	ccttggtgtg	tcaaaacaca	gttttgaggg	aatgaccacc	ttcaatgttc	tttacagctt
20401	cttttagtggt	acttaaaaaa	aaaaaaaaaa	tcaatctgat	ggatgattga	tggtagtttg
20461	ttcatggaag	atcttcatct	tatgggaatt	atctagtttt	tctaatacata	tactaccaac
20521	aaaaataaac	acaagcatgt	tccctttta	catattatcc	tccaccatta	cttccaaaag
20581	gcattggctc	acagtattct	gtttaagatt	gtggaccatt	tatcccaatg	aactcactca
20641	aactttatct	aaaacatatc	atgacaggct	gggtccaacag	tctgttcagt	ctgaaaaaat
20701	gttctgtgct	ctgttcagat	tgacaaaatg	ttcttttttg	ccgggcgcag	tggctcacgc
20761	ctgtaatccc	agcactttgg	gaggccgagg	cagggtgaatc	acttgagggtc	aggagttaaa
20821	gaccagcctg	agcaacatgg	tgaacccccg	tctcgactaa	aaaaaaaaaca	aaattagctg
20881	ggcatgggtg	cacatgcctg	ttaatccagc	tactggggag	gctgagacag	gagacttgct
20941	tgaacccagg	aggtagaggt	tgacgtgagc	cgagactgcg	ctactgcact	ccagcctggg
21001	caacaagagt	gaaactctgt	ctcaaaaaaa	aaaaaaaaagt	cttttctaag	agcttcttgt
21061	atgtgtggct	gtctcctaaa	gtactttgtg	ctcagttaca	gcttctgtgc	atctcattta
21121	cttatacata	aatagctcaa	ctaagtaacc	caacatataa	actctcacta	aactcacatg
21181	ttgcatctta	gaaaagggtga	tctggaagca	ttatggacta	tagtgagaat	gtaaggctaa
21241	cagcagttca	aagtagggat	gacacaaaaa	caaataaatc	atattgacag	tcattccctc
21301	tactaaaaaa	gaataatact	tgttattcta	aaatgacctc	ttttgattaa	aatttcagtt
21361	cataaaacat	tacagtatgc	ttcttttatc	aagtctacat	atcagaagaa	catgagctcc
21421	acgttcctgt	aaaactttta	acacattttt	cttcctaata	gacattagca	gttttggtga
21481	aaagaaaaat	tgacataacc	tagcattatc	ttttgacttt	gcccattggg	aaacttggag
21541	ttaaattttac	tacttaattt	tagaatctgt	cagtgttgat	atggttctat	aaatttttta
21601	ttttttttaat	ttaaattttt	aaaattttta	attcttttaa	atttaaaatt	tttaaatgtg
21661	cctgtttttac	atgtaatat	cttgtaatat	acatgtaatg	tacttgtagc	ttataactgt
21721	aatatatatt	aaatactttt	tggagggtct	gatataaatc	tgatataaat	taaaaatgac
21781	tggccttgac	cacagcataa	gcagatgtct	gatgaatgtg	ctaaccaccc	ttctccaata
21841	tacatccatc	ctagaggaca	ataaagtctc	acagtcatga	tttccaatat	aacatattta
21901	ggtttcagac	tgctggaata	atagatttca	gattgctgga	atctaataat	ctgcctttga
21961	agatgactga	cacacacaaa	cacacacaca	cacaccctgt	tgtagaagta	atgtgcaact

FIGURE 3 (continued)

```

22021 catgaggtac tttccctcat ccaaacagat gaccaagatt ttgaagacta ccttatttct
22081 cacttagtta aaactttcaa gaaaaaatat ttagaatgac ttaaagactc ttgtataaat
22141 aactacctaa atacagaaca aattgggagg atgtgggtca aacacagctg agtccactc
22201 agctcaaatt agatgagtct ttgactaca aagctcattt tcttaacata tgggttcctg
22261 cacgacttga taagatttgc tgagcaccac agtaatcttt taagacacta atcaaaaaca
22321 tggttctaca ttttaaaaac ctcagaagta gttttaggac aacagaagca cctcaaccac
22381 taaaataagc aagtttctat tataagtaaa attaccacac agcaaatccc ttaacagttc
22441 agcaaccaat aaatagaaaa tattcattaa aagctgctat ttctgattgt tcctttgtat
22501 tcttcgacta taagtgaaac atatgaaaaa taattgggtg tcagaaagct tttgactaca
22561 tgatgatgat cttatgaaag aatatgcac ttatgaaaga atatgagcca agcatagaaa
22621 acttggaaca gatgcacagt atttctacta cctggccat gggctcctcc tgagtagtgt
22681 ctaacaagtg ggcaatttca gtaagaattt tacagcctag catagtaacg ataaccagta
22741 cattcacttc ttctggaatt aatacaagaa agacaactga agatgtacta caaagacata
22801 ggtctaaaaac tgccacattt gcccaagtaa actaaaagaa ctcttcttaa cctatatcga
22861 acacatcagc aaagaccaat gttatactga aatgagtatt atcagatggt ttatatgta
22921 accaccttta atatttatct atgtgctact aaacccccaa aagattagac ttatgagac
22981 ataattaaaa agcacattcc tctcactttt ttaaagttaa atatggtctc ttctactgaa
23041 gcaattttatc tttttctggt tcctaaaaata ggcatacaat ttctaaacag aagtaaaaaag
23101 cctcagccaa aaagccacat attaggtatt cagcctgggtc taagaaaact aagttaataa
23161 attgaataaa ttaaatacaa taaattagga gtgcacattc agaacagaat tgtagccttt
23221 ggtagcaaac atgtgaacca aaggcaaaaa tctgccatga ttaaggcagt tctttgtata
23281 cagtacgatg tgtttttctt ccccgcccc ccaaccaagt tcatttagca ttctctttgt
23341 tattaataat gcagtgccaa gctagaatac aagcttccca ataataatag taaaaataga
23401 tggcatagaa agttcctttt ggttttagagt ctctcttaac acctattatg gtatcttctt
23461 tttgccttca cacacttggg gtaagagatt actgcaacaa tcgtttgact ttggccacaa
23521 accatgacta ctctcagggc gaaagccgtt ggaaggaatt attttctctc tctgctggag
23581 tcaatttaag tgttggcagt ttccgaggag gaagctgagg gctttggcga agattgtcat
23641 ccatctgtag aaagtacaaa agatagctct gactaatgct gtggcaccgc ttatgtggac
23701 tgtggcctcc ccatccaaac tatagcctag aagagtacag aaccatatgt ttctgggct
23761 gctagagaaa cctttttctt acaaaataac tcaagaattc taaatgtcat acctcaataa
23821 ccagctgact cagtttctgt aaaaagcaac gtggctcatt cctgatacct tcacagaatt
23881 atagttaatt ccacaaaata aatattctac tgaactcaac cataacttaa agaggtcttc
23941 tgatagtaag tgtaaaagcg gtactgttac actaagctcc agtttgcaa ctatgttcac
24001 gtacagtatc ttatttgatc ttcccgatac gctatgaaga aaaggcagac acagaccttc
24061 tctgttgtac agatgagcaa aacgagactc tgtaagggtta agtgatttgc cccacgtcac
24121 aagctagtat gagagctgaa acttgaaccc aggtcttctg attccaaaaa tattattctt
24181 tcaactatac ttctttacct caatgaaaat gacctgtatt ccaatcaaaa aagaccagct
24241 ttttaaaaact gagaataggt agaccaaagg aagctagtac attaggcaaa aagaaaagata
24301 aattctttta atgtaatcca gtggttttcc aaacactgga tcacttctaa atgaggtaac
24361 ccacatcaag ctcaaataac acagtgggtg acctcaaaaa ctgttagcca gtgtcatcag
24421 gcctcattgc cctatgagtt tgtaaaatag taagtattac tatttgtatc aggaaaaaaa
24481 aaaaaagcaa gcttatcagt tacaggggaa aaaatatgta acctctttgt atttttccta
24541 gtagaatcac acttgaaatt tcctttgttg gttctctccc ctaccagtt cctcaatggt
24601 tctctcatga aaagaacacc ccaagtggca aaatatctac actggtgaaa aaactataaa
24661 ctatatctag agcagagaag aacaagaagg agaaaaaaat aaaactttca tgtggaaaga
24721 agaaaaaac acggtgctgt taataagaaa ggataagccc agtgcttaca atcttaagaa
24781 acattaagag acagagaggc agacacacaa gcaagaagtg tttttgcttt gttttttttt
24841 gtgttttttc tgatggagtc tcgctccgtt gccagggctg gagtgcagtg gcacgatctc
24901 agctcactgc aagctccgcc tcccgggttc atgccattct cctgcctcag cctcctgagt
24961 agctgggact acaggcgccc gccaccatgc ccggctaatt ttttgtattt ttagtagaga
25021 cgggggtttcg ccgtataagc caggatggtc tcgatctcat gacctcatga tctgcccgcc
25081 tcggcctccc aaagagctgg gattacagga gtgaccacc gcgcccggcc gctttgtttt

```

FIGURE 3 (continued)

25141	tttaaagcaa	atcttttggg	tttcttagct	taaagggtag	taactgtgtg	gcaaaaagtaa
25201	acccaatact	cttatctgat	ctttcccca	tcaggccact	gttggttca	aaacactatg
25261	ttacatacaa	ctttagtga	agtatattta	aacagttttc	tgaaaaacaa	actctataaa
25321	aaaaactaaa	agggtacagt	taatgtgtga	cccaaagac	aatattagct	accgaaagga
25381	aaatactgaa	ctatgataaa	atgattgaag	tagacttgac	cttttcaatc	aagtgtgatt
25441	ccttattttac	aagtgtgtgtg	agtttctgca	gatttgcac	taccgtttct	tgtccagctg
25501	gagagatgcc	taagaagcca	ggacagaaat	cagagaaaga	caggaaattt	ttaaagcctt
25561	taaagctatt	tagattgaaa	gaatttttag	tctaccacc	ctgtccagtg	ccccaccctc
25621	cccaaaaaag	gcaaagagga	aaaccattct	gggttttaaag	gcgaagagag	ggattcgaat
25681	gctctaaaac	taaaccctga	gcaaaacgga	caaaaattta	tccactaagt	agacactgct
25741	aaccaagtgt	tctgcaattg	gccacaataa	ttagtttttt	tttttttttg	aaaaaaaaag
25801	cacagttagtc	ctcatttctt	tctcaagttt	aagctattcc	tttctcacac	ccatttcaaa
25861	taggtctttg	gtcacaacta	tctggatagt	tttctaaggc	agtaactccc	aaaaagttgc
25921	ccaccagaca	tccaaagtat	tcagaagaac	ttaaaaatac	aaattcctag	gattgatgcc
25981	taaaagattc	taatttagta	agtctggaat	aggacccaag	attttttatc	tgtcaataaa
26041	tcaggtttgc	taaccactgc	tcccaagtta	acacggttga	acattactta	atttcatgac
26101	tcccaaaact	ctaaccctt	cctgtataca	gaatacataa	cccacaaaaa	aataataaac
26161	tgtccacctt	agccagctat	ctttataacc	tgtttcttaa	aaggacaatt	tcagccaacc
26221	atcccaatag	aaatttagta	tctgaatcac	ttaagcacia	ggctccactc	tctcaatgaa
26281	gcacatccta	agtaacaggt	gccctctatt	tactatactt	ccattctgat	gcaatcagtt
26341	ttcaagtagt	ggaatcatgg	cagtgtacct	cacaaaaatc	aatctgctgc	tgatttctgt
26401	tcatgcagga	aaatgctaga	agcagcaggt	aaaaatcatt	taaagtaatt	gtccatttgc
26461	attaggataa	atactgtttt	tcagcaaaga	cttaatacct	gtgggtttta	ccttttagaa
26521	gaaaatgacc	cacttcaaaag	gggtaatat	taaagaacaa	gaagaagaaa	cgtaaaaatc
26581	cagcggaata	gataaaaaggc	aaatatctat	ttatctattt	aaataagaac	taacatgaga
26641	ataaaaaatga	agtcggaaaa	acacaaatcc	ttgaagtgtc	ataaaccact	atttaaagac
26701	aatacacaaa	cttctaaaaat	taaaataagt	agtggatttt	gcttatacat	acataggaga
26761	atatgcaaac	aaacattagc	tgaaaaagag	ccagcttacc	tccaagacta	agcctaaaaat
26821	aactgctcag	gatgtcatca	caaaaagcag	agagggttga	gagctgtttc	agatgttctt
26881	gtagctgaac	tttaggaaac	cgtactttgt	aaagaggtgc	aagaaaacca	aaaacatagg
26941	catccaaggt	agaaggccta	gaaataaatt	aaggattttt	aaagcacata	agacaatatt
27001	aactgaaggc	cgggtgtggt	ggctcatgcc	tgtaatccca	gtactttggg	agatcaagcg
27061	ggggcagatc	acttgagggtc	aggagtcca	gataagcctg	gccaacatgg	tgaaaccctg
27121	tctctactaa	aaatacaaaa	gaagtcgggc	gtgggtgggtg	gcacctgtaa	accagctac
27181	ttgggagggt	gaggcaggag	aattgcttga	accagggagg	cggagggtgc	aatgagccaa
27241	gatcatgcca	ctgcactcta	gcctgggcaa	caagagcaag	actccatctc	aaaaaaaaaa
27301	aaaaaaaaaa	attaaattaa	ggattttttt	aagcacataa	gaaaatacta	acttgggatg
27361	gtgttttaatt	tttttttcaa	aattctcaat	tctgaattac	acagtatagt	ctcttaaaag
27421	gtttactatc	catttcagtt	tacaaaaaatt	atgcaaccaa	ggttttactc	attgagttagc
27481	ttagactcta	ggagaaaatg	aaattgtctt	tatagattca	tttttactca	caaagttag
27541	actggaggca	gagtgggaac	agtctgagat	gttttaaatt	cacatatgca	gcctattaag
27601	tcaatgttag	attatcactg	gtagaaaaag	tttctataa	taaaagccca	ttaaattttt
27661	ttcttggttg	ttttgggttt	ttgacatgga	gtttcactct	tgtaaccag	gctggagtgc
27721	agtggcgtag	tctcagctca	ctgcaacctc	cacctccag	gttcaagcga	ttctcctgcc
27781	tcagcctccc	aagtagctgg	gattacaggt	gccaccacc	acaccagct	aattttttgt
27841	attttttagta	gagatggggg	ttcgccatgt	tgggcagggt	ggtcttgaac	ttctggcctc
27901	gggtgatctg	cccaactcgg	cctcccaaag	tgctgtgatt	acaggatga	gccaccacac
27961	cggcctaaat	cttggttttt	ttaaagtaaaa	aactcatctt	ttggggagat	aagaggactt
28021	gctttaaata	gctgctcact	gaatatatgt	gcacaaaata	ccaaaatgat	ttttaaggga
28081	atactcacgt	atctccaaag	aaaaactgag	atgttcccaa	tctgtttgat	agaagattta
28141	ggcactcctt	ggcatctctg	tatatcta	aaggatgaaa	ttatatctca	aaagtagaaa
28201	agatactcta	aaactacttt	tgaggaaggc	atctctaggt	aaactcaagt	ctgcatttta

FIGURE 3 (continued)

28261	tcttgctcctt	tctctctagg	gcccttgctt	gaagaataat	ccatactata	cctgtgcttc
28321	cacttctcgg	aggtggtaga	ggggaggctg	tctcttggtc	agggaatcc	tattcagtg
28381	tcccttagac	attcttccag	gcaggatcaa	actcaaagga	aagggaat	gtgaagcaaa
28441	ccatggcttt	gtcacagtaa	agtaattgtc	actctcaacc	cagaatgtgt	gaagctgcaa
28501	aagaagagaa	aaaacactac	aaggatgttc	ttttattaaa	tgaaagatca	ctcaatcaac
28561	atgagagttt	ttcataaata	tctttatatg	aagtgtcttc	atacaaattt	tccagttaga
28621	atgactcagg	ataaaacaag	attattttta	atgtgtgagt	ttgtgtgact	gctatcttcc
28681	aaacaccagg	aacaaggcct	gacacatagc	aggtgttcaa	taaacatttg	ttgaatgaat
28741	gaattacacc	caattctata	catggagcaa	aaagatccat	ctcccacaaa	gaatttccaa
28801	catgacattt	tattttactt	tgttgtttca	catactagtt	gaatgcctaa	cagaatccag
28861	tttcacagta	atatgaagga	attaagatta	acataataag	aaaattttct	cttaagactt
28921	ttctcattgg	tttttttcta	aacagactat	gtacatttgc	aactaggcta	ctaaaatact
28981	gtaatattta	agaacactca	ccactgcagg	gagaagcttc	tcttcgagga	gagcaatata
29041	agccaatgta	tctgcccctt	gttttgctga	gagttcataa	tcagcattat	atttctatta
29101	aaaaaaaaata	aaccaaagaa	actcagaagt	caaagagcag	cccaaagaca	gtaaaactaa
29161	tcaaatcagg	attcatattt	ttccttacaa	atagcaaacg	tggtattaac	atggggagaaa
29221	gagaaataca	aatccagtga	aacctattgc	ttaatgcaca	taagatttct	agcagagcat
29281	cacatacaca	atatggtcaa	taaagtgtac	aatattaact	actattattt	tcagtcttgt
29341	taatgaccta	gttcagtgca	tggcatgtag	tacaacaaaa	gcaactatta	tttttaacaa
29401	gaaggaaaca	gttccaattg	gctgtgttct	tccccaagac	aaaagaaaaa	accttccaat
29461	ttataaaagt	tcaaaatggt	attgacacaa	tttttttaag	tacagtattg	gcaaaacaaa
29521	taacttatcc	attcatataa	atctttacat	gtttaaacat	tttggtatata	taattctcta
29581	ctgttaaaac	atttagatac	attattccat	aaaactgcta	ttaagagctt	tttaaaaaata
29641	atatagttgc	tagttggtga	gagctcaggt	gtcatgccc	gcacaaaatg	tgtaccaact
29701	atgtgacaaa	atacacaatc	ctatcaataa	gtttaatagt	gaaaatggct	aattaaatct
29761	acttacatac	aaatttcaat	aaaattcaag	caaagtttat	taaaatataa	actgactacc
29821	tcttcatatg	actttcaaat	cacagaactc	atgctttaga	gcagtgatcc	tcaaactctat
29881	ttttacatct	tgtcccaggt	atctccaatt	gtctaataag	ttggcaaaaa	aaaataaata
29941	aataaaataa	agcccaacat	gcagggatca	acaatctacc	aatctacttc	ttcaaaagtga
30001	accacccacc	tgtttttctta	aaaagtttag	tatttttgct	ggctgagaaa	ccatgtcgtc
30061	ttcagttgtc	aaaattggta	catcgcttat	aatcaaaaaa	cagtttacat	acaaggacac
30121	agtgtgat	cctctgagag	attccaatat	cctaaaaact	atagcagttg	cacatttaga
30181	ggggaaaaaaa	tgagtaagct	tgtcttggtt	tttttgctgt	ttcacaaaaga	gcggttctaa
30241	agaacatttt	cgtttctcat	aatttccagt	gatttcgctt	gcactttgag	gtattactca
30301	gaatgatcaa	accataaaca	acacagagcc	aaggtcacgg	taagaaacta	aatcctcaat
30361	attatagcta	tatacctcac	agctttaaat	ggaagaagaa	aaaaaagagt	gcagaaaggg
30421	gagtgtaaaag	gtttacacta	tacctcttga	acctctccag	gtgttatcta	tcacattgac
30481	tttcaagggg	gcaccagaaa	atttggcata	agcctgaaac	agagtttgca	atcaaacatt
30541	ttagaccaag	tgcgtaatgc	aaagctgcag	agcagcttta	cttcacagcc	ccatccccca
30601	aaggcagaag	gcgactgata	ctgaggccgc	atccctcccc	gtgatctcaa	gtagggacgc
30661	gggcgccagc	caccgggctt	tcgaggactt	tgctccccaa	aaggtcctgg	ggatgcagag
30721	tagggagggg	gcgccccttg	cttcgggggt	tcactccacc	gcccagacag	ctttgtgagg
30781	cggacaaaac	tcggagccaa	gcggagaagc	cttgatgtcg	ccgcgggctt	tcggcggggg
30841	tatcggccag	gttgggaact	gtcgggtgga	gggagcccag	ggcaatgcag	cgtgcagcgg
30901	ctcggccctc	ctggaccccc	cagcgcagcg	ggaaactggg	gcaagtgcag	ctggcgccct
30961	cagccccgcc	ccttctctct	gcgccttggc	ccgcgaggcg	gcctcaccat	caccaccagg
31021	gactcgctgt	gaaccgatgg	gagtcctcgc	ccgcctcccc	agcaactgag	ttccaagggg
31081	gccgccatct	tgcgcggggc	gacttttact	atcccggaag	tacttttctt	cctaatttcc
31141	ggcacgtgaa	acgcgggggg	gtggctaagg	gaggggaagg	taatttgggg	gctcttgaga
31201	gatgagagaa	acaacgactg	gagggattaa	gaagaactct	taggagcagc	ttggcctaaa
31261	gggtaagagt	tgtgtgcctt	aagtcagacc	caccagtaat	tcttcaaata	ttaatattta
31321	ttagatccct	agagtgttcc	aaaccctttg	aacattaaat	ctgtgtgatg	cctaaattaa

FIGURE 3 (continued)

```

31381 cctgttttga aaacagggat gacccagtat ttacaagatt gtggtattta caatgtcgga
31441 gagaagaagac ttggcacaca ggaggcactc agtaattggt caaccccttc tcccatgtat
31501 gtggcctctg cctgcctttc cagcctcaac ctgttctcac cctcatgttc actggcacaa
31561 ccctgcttaa aagttacagt atttctgaac gtcaggtaaa ttgtgcccac cttcagtgct
31621 ggtccttcaa tctggaatat ctttcttccc tatgcagctg ctcctcaca aatgagctta
31681 actcaccttc cctgtgatgt ttttacaag ttaggagctc tgggttcttg tagcccttg
31741 tgcataattg aattgtagct tctctcccta gctacagacc ttttgccctt cacagaagag
31801 ggctagcttc ataggttttg gacctgtgca gccacacaag gctctgtgct taaaaaggct
31861 cctcatttgg ctgatgctct tccgtcactg tcttgaaatt cttaggtttt gaacaagggg
31921 ctctgcattt ttattttgga ctgggcccct caaatcatgt agctcgtcat gctctgtggc
31981 ctaatgagca cagactaaat gtttcttgac gttaaaccctg acagtttctc agaaaaacta
32041 ttaaagagga aatttttggtc ttggaaatgc tatgatccaa acatatgact gggctcaga
32101 gttagaactt ggggtgctggg tcttttttct agaaggcaca gtagtctttc tgggacaccc
32161 tcgcagtcac gcctctgagt tcttctctct attccactga gatggtcgga tcttcttaac
32221 taaaactcaa aagaaacctc tgcaactttt cgtaaaatta ctattcaaca aatatttgct
32281 aggcactccc ttactgttta cataatcatt caaattacag tgccagcctg ctaaagtctt
32341 ttttacatgt ttcaaaacca agagttctaa gaaatgaaaa agagatatgt cagaaatgag
32401 aattcattaa taataactgt ataattggaa aatgcataac atatgtacca ttaaaactgt
32461 cgaaacattt attgagcagc tcttatgtct tagacatcat aaggttcttg aacaatacag
32521 aaatatataa aacatgaatt ctgtcctcgg gagtttacag tgcacaaagg agatatacac
32581 acaccaaggt gtaacaagtc agataatcac gaggtagggt agaaatataa gcaaaatact
32641 acagaaacac aaaggaggga cagtgcctcc tctgtgtgat cagtggagac tatctgttga
32701 gtcttcagta taaagaaagt aaagtaattc aactttcaga ttgtaatgga acctcctgt
32761 tttgagggtt agaaatgtca aaccatagac tgacaaaggc aaggcagggg gaaagaaaaat
32821 cctaagccat aaagctgagg gtccatatac tacattcagg catttaaaac aatcatacag
32881 aaagaatgtg gatttcttga gccttgtttg tagcaggact gagaggagt aatgaacatt
32941 cttagtggac acataacaca gttactcagt ttggccttct tccgtactgc tgctactaca
33001 tacagtgatt tcatttgcac taaagagaaa ttaaatctct tcccttagtg ttgaattgag
33061 acagaatagc atgtcattgc atctgatgaa agaatectta cacacagggt tattagtgca
33121 tagataatag caatctttta ttgctgcagt tctcttgag agtctgtatc tgttagattg
33181 aatttaaaaa actctaacat agctgattgc acaaacaggc tgaatactgt tccagagAAC
33241 cacacagaaa attgaagcct tcagaaatta tgccctggat ggtaggttg ctcctgtgcc
33301 ttttctggc tgttttagag tattgttcag agttcatcta aatcataact tcagattcct
33361 accgggaaga atactgtctg caaaacatcc atgtttgtgt gggatggcct gaatcacagc
33421 tttataatga gtatcccaga cagtgttttc ccaaaaaaag aaatcttatt tttcaaaaga
33481 tgatcattaa gaatggtttc atctgggtgat agtcatctga actcaggcaa cctgacctg
33541 gcatccatac ccatacctca tgtgtttctt aacttgggag ccacagtgca aggtttgtta
33601 ggctcttttt gtctgggtga ttaagaatct gggaaatggt gctgttggga aagatgaaag
33661 gtttgtgaca aatgatggta cagtatatgg tcccttatgg gaaaattaaa ttgtaaagtc
33721 ttaaataatcc ctttgaactt gaagattctg taatttgtgt tcagatataa aatccttaag
33781 gaggggaaag aacaaacact gaatagaaaa aaggagagct gagttcttga cttggcctct
33841 gattagccat atgcgcttgg gccaatcatt ttacattgat acctctgctc attcatttat
33901 aaagcaaaag ttcttttate tctgagatgc tatcatttta tgtgtaatga acatttaata
33961 atttctgaca tttatggagc aatttctaca tgccagaagt tgtttcaagt atctaacata
34021 acttgcttta tctccataat gatttcatga cacaggtaac ttctaagggt taactaacat
34081 ctttgtgtcc ctccttgaag atagaagaaa atatcagta ccatatagcc agtaggtggt
34141 agaaccaaga tttgaacca ggcagttttg gcttcagagt ttatactctt aacctgtg
34201 tcatactgcc tcatgtagcc tctgtgtgag tccattaaaa agcccagttt caccCAAAGT
34261 ggagatatca atgccatgat attattgtta ttatttatgt aaataatatt tgttttagtat
34321 tacaccatta aacgaattca ttaagcagct tctgtatgcc tagcacactg caagcctgtc
34381 agggaataaa aatttatgtt cgctgtaat cctagcactt tgggaggagg gatcacttga
34441 acccaggagt tcaagacaag cttggacaac atgatgaaac cttgtctcaa cagaaacaca

```

FIGURE 3 (continued)

```

34501 aaaattatag ctgggcatga tgggtgtgtgc ctatagtctc agctacttgg gaggctgagg
34561 cgggaggatg gcttgagccc aggaggagaa gattgcagtg agccgtgatt gtgcaaaaaac
34621 ttatgttcaa gcttttagag gcacagttga tgaacaagg cccacatatt tgaactaact
34681 agagactatt aggaagtacc attttgtcaa gaagacaagt ctagtatggt tttagacaaa
34741 ggcttgaatg tactgcaatg cttggcaaaag gcctaatagaa agaagatgat agctgatctc
34801 gaaggggtggg tacgtttgcat tttagattggc acagagtaag gcattgcata tgggctgtgc
34861 tatataagtg aaggcataga aacaggactg actatggcaa ggaatctgaa gatgagtaaa
34921 cgaatgctgg gtttggttat aagctggaga ctgctcaggg agagtattgg ttgactaact
34981 tgagaaccag aattggaagg catgggaatt tatagttttg agaaagtaaa gacaagtaaa
35041 agtccaaata caatattagt ggatttacat agtcaaggat gggaggtaga cagctattgt
35101 tacatggaca ttataagaag aagcatttta taaaccata aactatatta aataaagtaa
35161 aagtgtggtg gaaaatgctg ctgaatatta ttggaggaag gtcacttggc acccttccgc
35221 tgagcatttt tgatagagga ggttgtaga aatccagtgg caagggatta ctggagaaaa
35281 ggggtataaac gataaggaca ggtctaagag catgaggaat atgactgata aaggaagaag
35341 agaaatggga caggactgaa agactcaaag tttttgaaag agacgacatg gtgaatctac
35401 acacatatga ggacaaaatt ggctattatg agtaaaagtc tgaagatgct ggagagaaga
35461 aggatgggat cctagaaaatt gccctaagag ttgaggctga gatccggagc ttgagcagcg
35521 gggctggcag gcattgaaaa tgagagacat gctctctttc tgacactgga ggaagtttca
35581 aggggaacta tgggatgctg agtagataaa tcagttacct tcaaatttcc ctattacatt
35641 agaaaaaaaa taaaagtgcc tgagagaaaag agattggggc tttaaaaaga cagctgggca
35701 cagtggctca cacctgtaat ccagaaattt tgggaggcca aggcaggcag accacttgag
35761 gatcacttga ggtcaggagt tccagaccag cctggccaac atggtaaaac acaatctcta
35821 ctaaaaaaaa aaaaaaatta gctggatgtg gtggcgacac cctgtaatcc cagctactca
35881 ggaggctgag gcaagacagt cgcttgaacc cagggtggcag aggttgacgt gagctaagat
35941 cgtaccactg cactccagcc tgggcaacag agtgactctg tcacacatac acacaaaaaa
36001 aaaggcgga taatttagag actatattcag gggtaataaa aaagtaaatg ggagcattgc
36061 tgacagtcgt aaaggtaaaa tgtaaatcag tattaaggcg ataaatcaag ggagagccat
36121 gggcaggcta atgattaggt gcctctttta acagatattc tttaaatatt cattcagttt
36181 ttttaaatgg aaataaagtt ggccccagaa tgtaacaaga tcaatttata ttttaccat
36241 ttttttaaaa gttttatttg gaaatccgga ttttagtacc acttaaaagt tggctcctgag
36301 gatgatagaa gagggatggt accctaggag ttgccccagg aattgaaaga agatgaactc
36361 tgtagcttca gcatgatggg ggctcagcca tectgacgtc tagctaaatt tgtacagttg
36421 tgtggcttcc tctaaagata ctttggtacc cagaagcata aaaagccaag ttcattgtatt
36481 tggtagctat gtgaagggtga tcaggcagta atatatactg atagggattc attttgctcc
36541 tccagcatag taaacctgct gtcttttgta tgaaaaagaa ttaaatgaaa ccaaaatgag
36601 aatattataa tctgacattg tgctgaattt atgttgagga aataggacaa ttatacttaa
36661 aaaatgaggt ttgtaaaagg tcctagggtg aaataaggac ctataaatgg aagtaataaa
36721 tggaaataac ggaagcctta tttctatact tcactcaaag tggtaaaacc taatatacca
36781 atagactgtg atgttaaata tgtatattat aatactgaga gtagccacta agagaactat
36841 acaagtgata tactcaaaaa tactaaataa atcaaaatag tttttttttt tttttttaag
36901 tccaagtaac ccacaagaaa gcaagggggc agcaggggag tgatagggtg gaagtgggga
36961 ggtagtcaga gagatgagaa gttgagaata aacagaaaac aggtaacaaa atggcaggct
37021 taaatcctaa aataccaaga cttattctaa atgtaaagtt gatctcaata caccaattaa
37081 aagacagaaa ttggcagagt ggataaaaaa cctaagctaa atgtatgctg tccctcagaa
37141 acttccttca aacatgacat tggtagatgg aacctaaaag gatggaaaag ttataccatg
37201 caaacattga tcaggaaaaa aaaagtagta tgcgtgtatg tgtgtgtgtg tgtgtatata
37261 tgaaggacat tacataatga taaatggatc agtccacaag acaacatatt aatcccaaat
37321 gtgtgcacca aacaacagtg cttcaaaaata catgaagcaa aaactgatag aggtgaaaga
37381 agaaatagac aaatccataa ttttaactat aacataagct atagttatac ccgacactca
37441 gcaattgata gaactactgg acaaaaaata agcaaaagata tagatgaatt aaacaacagg
37501 atctaataga catttatgga atgccccacc cagtgcagcg agaacataca ttatttttaa
37561 gagcctatat aacattccacc aaagtaggct attatgagtc ataaagcaaa cctcaacaaa

```

FIGURE 3 (continued)

37621 agttttttaat gaaataatgc agaatatatt acttgactgt gctggaatta aactagaagt
 37681 caataacaga aagataacag taaaatctcc aaaaacttgg aaattaacat acttctacgt
 37741 aatcagtggg tcagagagga agtgtcaaca gaaaagaaat atatacaatt gataataaaa
 37801 atacaacatt tcctattaag agaatgacaa gaagccacag actgggagaa aaaaatttgc
 37861 aaaacatata tctgttaaag gacttgggtc caaacatac aaataactct taaaacttac
 37921 aacaagaaaa caaccaatc atactggatt aggatagact gcaaateccag tgatttggtaa
 37981 ctgatattgg ttggatttgg gtccttgcgc aaatcacatg tcgaattgta atccccactg
 38041 ttggaggagg ggcctaattg gaggtgattg gatcaaggag ggattccacc cttactgttc
 38101 tcataataat gagttctcat gagtcttggg tgtttgaaca tgtgtcgcac ccccccttc
 38161 tctctcttcc tcctgtctca gctgtgtggg acgtgcctgc tttgccttcg ccttccacca
 38221 tgatcgtaag ttttctgaga cccctcagc catgtttcct gtagagcctg tggagttgtg
 38281 agtcaattaa acctcttttc ttcataaatt acccagtttc aggtattcct ttgtagcaat
 38341 gtgataacag cctaataaag gtgaccttat aaggaaaaag agacatagca acacagacgt
 38401 agaccagac ccaaaattgg tgaaatctga atgaactctg tggtttgtag caatgtcatt
 38461 ttcattgatt taatatcgta caatagttac agtagatgtt acaattgggg gaaacatccc
 38521 tgtacattta ttttacaact tcctgtgagt ctatacttaa ttgaaattag atgtttttaa
 38581 aaagaattaa aggtaattga atggcatgtg atgcaaaaaa tgggcacatg aaatatccag
 38641 agcattcaac cagatggcag ctaaaaatgt ggaccatctg ccttcatgga actttgtatt
 38701 tcggacatct tttcatcagc aagaccatgc catttaaatg ttttcccaga agtgatgctg
 38761 agctatgttc agtggccaca tggctctcta gaatcagtaa caatgaataa ggatggacag
 38821 ccgggagtaa agatgtcttc caggaaatca tcttaggact gggtaacccc actacacccc
 38881 tgggattcag tcaaccttgg aaatcactgg aatccttaat ataaactaca aacaatccag
 38941 cattctctgt ttggctaaag atacatttca aagttttctt taagaaaaaa aagcaatata
 39001 ttaaaacgct ttgtttgaat atatgtatat ttgctggatc aatagttctt acagccatat
 39061 tactaaaatt aagggtctat gcataataag aattactata attctaaacc cattaacagt
 39121 ttatagctta tccatttctt atactatccc tgtgaggaat aattatatca agctttattt
 39181 gtttacacca aacaggaaaa aatagatgta tttattcata tttctcccat tggattagcc
 39241 aagtctacta gggagcaaaa atagtaaatt cacatgcctc ctttttttat ggtagtaatt
 39301 gaaaaagtta tggatatgat ccatttttct gaaatgttta aaaatgagtg tataaaatga
 39361 tcttatttttc agaacttaag tcattatgtg tattgtttat agggagttat attacttttc
 39421 cagattaata ggctgccatc gataatgaag aacaaataaa tcctgccttg tgaaatgctg
 39481 ccatttttaa atttgccctga ggaaagattc attattggag gattcttttc tttatacata
 39541 aatcgcttta aacagcaaaag tctcctagca tttaaaaata gtccatatat aaaaattctc
 39601 tcaatccaca atcatgtcag ttgtgtaaaa tgagatatat ctggctctgat acctcagttt
 39661 atggaaaatt ctcttgaaat gtcagtcatt actcacatca gtgcttttaa tgccatctta
 39721 gcaaaactaaa agaaattagc gtacattttg agtaattgaa gtgagttagg aagaggaaaag
 39781 aacagggtcc aatgagtttg aaatgggtgt tacagttggg tattgttcat agcttttggg
 39841 actgtcttgc tttccctatt catcaagggt ctgaggcaac aacattaaaa tcaacccaag
 39901 aagtatactg agtaggtata tgggagaatg gcatattaac tcttgataa aatgtctcag
 39961 tatgtaaata cttatgaatt attattaatt tatattactg tacttacacc atttgattac
 40021 acctgcataa agctgcatac tcattttttac ttcaaattgca ggaactaact cttatatccc
 40081 ccacagcatt tagttggcac ataatagatg cttatagttg atggacacaa aacatattca
 40141 actattacaa gaacagaact tttattgctt cttcagtttc aaatgtctca aagttacct
 40201 ttgcttttga ccacaaagtc taccctcct tatggtagtt tctcaggtg tctgtgtcct
 40261 ctctttccat tgcattttct tctcccatc ctaccagta actggagtct tctcctttt
 40321 gctgccccct gactacaagg catttccatc ttttggtctc ctaatatgtc atgccttctg
 40381 ttattgccac cacagccttc catttcccag ctctcatttc catcctaggg atgggacagt
 40441 aaggctgtca tgaataagca taatttatat gcctttttct ccatttgttg gtatggataa
 40501 ttaagtgacc ttcaactttc attcaagggt aatcatagcg ctgaaaacca aaaggataag
 40561 atgagagtga gcaaatcaag tccagagagg tgtatttcca gtgtggaaca gtaactcagt
 40621 gtaaatatcc aggagagagg cttccaagag agcgtatgtg tgtgcactgg tgaggggagg
 40681 aagggttacg ggcgggaatt gtggtagaag cttcctgagg ccaaagaaaa cattcccaga

FIGURE 3 (continued)

```

40741 ggggtctctat tttaaagaaa agatttttctt tctctgattt tttttatatg tagatgtctt
40801 cattatatat ttggacctgt ttttaaaaca gcttagtttt agattttattc ttcgagataa
40861 cttgtacctt tggacatcac caacagctta caaaaattag accagttgac tctcaataag
40921 acttctcacc tgatccatga gcatcatctc tttatttgga tttcataagc cagatgatat
40981 cttaaaattg gcaaatataa ttacaactcc gttgaacata tttttctcca gaaaatgttt
41041 tgagtacaaa aacgacatct agagggtgact gtcaatatat cttttctttg cacgtactac
41101 atatttggtt ccgtgtttta gaaatatattt agaagtttgg gtaacagaac cggcagtgge
41161 atttattgaa ttcttctcca caataactga agggatagta ttatactcgt tttgcagata
41221 taaccctttc aatccaacta atatttatta agtttactaa atgctggcac cagtgatacc
41281 aagatcaatc agatgtagct cttgttactg aatggcgtac atggaggaga taaacacagt
41341 aacgtccact cttgtgtggt gagtgtgtgt ggagattaat taagtgttat gaggttatag
41401 aagaggaatt attcaccat ctgcagaggg cttggggatg aaacagtgtc agtgaagcac
41461 tcctggagga ggtgtaccag gggaggtgtt ccagacagaa aacagctgaa gtaaaaacat
41521 ggaatagagc aatagtatat tgtggtctga gaactacgta taattcaaca tttcaggagg
41581 gtaaagttag cggtagataa tgatgagaaa taagactgca ggcacagtca gaggcctatt
41641 taccacaca aaggaatttg gagtggagg caccaagggg aaatatcttg tttcaaaaag
41701 tgattacatg aggatttttg cccagttctg tttgtctcca aagccatgat ttttacatta
41761 aaccatattt acttcataga cattcttcaa attaaccatt taccaaagat gtaaataagt
41821 tataagaaga aaaacaatac taatttggaa gataataaaa gcattatttg gaaaaagcca
41881 gtgtagtatc tctattttca atttgaactt tgagtccaat gattagacat tttctagtcc
41941 catattttat accataccat gcagtctgct tttgttaact atcataata gtgaaatgac
42001 aaactgacca gcactaata ctgggggttac actggtgggt accctacaac aggcgttttg
42061 ttctttggta tctaaccact accttcagta gctgcctgac aaagtgtgta atctgaggcc
42121 acactacctc aagggcacct ctaccaagac acatctgctg ggccaatga aaacagaggt
42181 ttctcctagc cctagcattg gagactgaca taccctcaat ggatgtcagg ggagaccag
42241 tcaactaagg tgactctcct gccctaac ctagtagcat tcccaaaaag aaacaggaga
42301 ccaaagacct ttgccttgta taacagtcac gctgcctcgg aaaagctggg aagtccctc
42361 ccagtgacct catgctctat cctaattgtga acgatgttca tgctttttca tcaaatctt
42421 taaatagaaa ggggtgcagag aaagtcaact gtaatcactt ggtgcagag ggaggagag
42481 agagcatttc atattcaaga agaaattgtc caagcagtaa atggcattgt ggtgagctc
42541 gtaattggag atagtagaga aacactggac agctgaggaa actccagaag ggagaaaaaa
42601 aaaaaaaaaa aggaaaacct aagaacaaaa taaaagagtc taaaatttac acagaatcag
42661 aaaaagactt ctgaacaaaa tagcattgat ggtgctggga aacttaatta gtgcataccc
42721 cttacagcag gaggtgggta gaggaactgt tatgttaacg aaagatcatt tgaaaaaaa
42781 aaaaacaaaa acatgtttgtc tttctcttta aaattttaac taaattccct gattcttaac
42841 agaacagggg atatacattt ttcactaagg aacaagtgtg tttctttaa attccatatt
42901 atgatctgtt acaggtgagt ggggtggcaag tagaatattg tggttaactc ctgggatgga
42961 gaaagggtag gggaatcgat attattaaga gagggatata ggagaggctt cagtaatttg
43021 cagtttgaat actgcaaaact taagtagtag gaactaatgt ttctggagt attccttata
43081 cctttataaa tgcctaaata ctacaaacat ttcataaact tttaaaagt aattggagat
43141 tcgggcaata tttagggaaa tgagagggag caagaaagag atcagagggg cagaggatga
43201 gaagaagagg agaagtaagt agggagagag agaaaaaggg aaggaatggt tttgaacct
43261 gtgagctttt ggaagggtta ggttagaggt cacatcatgc tgttttctt atcaattctt
43321 accctgattg agtagctctc tacctgtttc tcaccaaag gttcaagcag ctgccatggt
43381 attctcatct ctacttccca gccacaaaac agctccagcc aacataaagc agttcttcca
43441 gtagaaaaaa gaaaaaaaga gcacctgcaa ttccctcaag aagaaaagaa caaaaacaat
43501 gagtatatat gtatgaatga acctaaagca gctctaaact actcccttt ggggacagaa
43561 gcagatgcct tcgccaaatt caaaatgaaa tcccatatct ctgaagacct cttcttatg
43621 ttactgtata atttacatgc aagttgtctg catagttaat cgtcctctat agcatctggt
43681 atttatcatc aaaagccgct tgttgagagg ttctggagaa gctcttcatg tatcccggtt
43741 tttaaacatt tttctacaag tctgtttctt taaaattaaa agtgtagctg agcacagcga
43801 ggatctggta gtaagtagta gggagggtca ttcatacttg ggatgttgct aatgtgacct

```

FIGURE 3 (continued)

43861 gcatgattca gggccagaga ggtgaatgaa gataaaggga actaagcggtt acagccaaaa
 43921 ggggttctgaa aatctcctag tcagattcct cagtttccac atttgacagt agcttttcgca
 43981 gggaacccca tccaccatga ctgagctgaa actagaagcc aggtttttca ggtgtcattc
 44041 aggggttgatt taggggttttg gttttctcct gcaaaatgga gaaaatggga aaatttttaga
 44101 ttatccatgt tagaaggatg atgaatgtgt gtaaatgata ttgttcagat tctgtgagt
 44161 ggaccagcac catattggac tggcctaggg aagtcaggat tctgccttct aggtagggtgc
 44221 tcccatctgt tggtgacctg gaacatctct ctgtgttcat tctggagatg cagatctggg
 44281 tcccgagac tcagaccttt gcaggacact aggggtggccc cttgttgctt ctcatctgct
 44341 atagtctcct gccactgtgg cctacgggtt tgatttagaa attcaggaaa gactagaagc
 44401 aagcaaacag ataaaagggtt agtgaagtgt ttatccacta gagcaaagcc acaacttttc
 44461 gtattattta gctcttatta ttctaaattt taaattgttt tttattgttt cacttaccat
 44521 gtgtaacttt cacttttcaa ttacacatgg caagtgaag aataaaaaac aattttattta
 44581 ttttttattt ttattttatt ttttgagaca gagtcacgct ctgtcaccca ggggtggagt
 44641 cagtggcggtg atcttggtct actgcaacct ccgcctcccg ggttcaagtg attctctgc
 44701 ctacgctctc tgaatagctg ggattacagg caccaccac cacaccggc taatttttgt
 44761 atttttagta gagagggggt ttcgccatgt taccaggct ggtctcaaac ttttgacttc
 44821 aggtgatcca cctccttgg cctcccaaag tcttgggatt ataggcatga gccaccacgc
 44881 ccagccaaaa aaaacaaaac aaaacaaaaa actaaaattt agaataataa taagagctca
 44941 gaaaatgaca gtaattaaac aaaggtcaca cggaaaagtt gcccttgata tatcttggga
 45001 cagggtgggt tttccttatt gttcttagct ctttttgta atgtttattt tagtgcctta
 45061 atgctactaa acagaaaatt cagaaaacat tgtagatgtc ttccttttac gctaatatc
 45121 tccagctttt catacatttg caaaaagaaa tagattatgg atttctcaag gtttagccgc
 45181 ttgttatttc cgtgtgtaat acaataagc atagttaaag gtaatttaa ttagcaaatt
 45241 tgcagttatc tgaattaaat gtactccaa tttagtttac aagacctgac aagtttgtga
 45301 ataagttaat tcacttctaa tgtattttaa tataccaaa ccacaaagca tcttaaactt
 45361 tgtaaaaaga gtgtgcacgg aggaatgagc actagatgtg aattctagag aactggggtc
 45421 caggctctgc tgtgtatttg cctgagcagt tcacttaact tccctgagtc ttggtgtctc
 45481 gttttgtata aaggggaacc tgatccctct tctgcctggc tggcagagca ctgtgagact
 45541 ctggagaaat gacatatgtt agagatgttt ataacctgga acacgggtaca cggtatgttt
 45601 tgtttgtggc attttttttt tttttttttt tttgagacgg agtctcactc tgtcgccag
 45661 gctggagtgc agtggcgcgca tctcggtcca ctgcaacctc tgcctctcag gttcaagcaa
 45721 ttctcctgcc tcagcctccc aagcagctgg gactacaggt gtgcgccatc atgccagct
 45781 aatttttgta tcttttagtag acatgggggt tcaccatgtt ggccaggatg gtctcgatct
 45841 cttgacctcg tgatccactt tctcagcct cccaaagtac tgggattaca aacgtgaacc
 45901 accatgcccg gcctgtggca ttgtttttta actaaagcat gtattatagt tttcctgaaa
 45961 agtaaagatt tccagaaaag gaattgggaa actcttttac cctcatagt ataaaaatg
 46021 gaggtttcct tctccagggt tggtcagctt cctccttgat atgggttggc tttgtgtccc
 46081 cacccaaate tcatttgaat tgtactccca taattcccac atgttgtggg agggacctgg
 46141 taggagaate atgggggtgc tttccctgt actgttctca tggtagtgaa taagtttcac
 46201 aagatctgat agttttatca gggatttccg cttttgtgtc gtcattctct ctttgctgc
 46261 tgccatccat gtaagaggag acttgctct ttttgcttc tgccatgatt gtgaggcttc
 46321 cccagccatg tggaaactgta agtccaat aacctcttg ttttgtaaat tgccatcag
 46381 cagcgtgaaa atggactaat acacctctgc tctagttctt tttggaacta ggctcttc
 46441 ctttggttgt cttgacctc actgtcagat tggacacttc tccacactgg acctcaacat
 46501 caccctgctg gcagtcacc agggagttaa atgtctgaag agggaatggc ccaaaaagga
 46561 gtctcactgc cattgcaaga gctgggttag aataaagggg gcagggtgga tgaatgaagga
 46621 ttacttaatg ggtacaatgt atgttatgtt agtgatggat actctaaaag cctgacttc
 46681 cccaatatgc aatctatgca tgtaacaaaa ttacacttat acccatata tttatacaaa
 46741 taaaaaggaa ttttaaaaaa gaataaagg gtatgctgtt cattcattta ataaacatgt
 46801 attgagcacc aactatgtgc caggcactct tctagatgcc tgagggtgat aaatgaacaa
 46861 agtggacaaa aattccttcc cttgtggagc ttacactcaa gaatatgaga ccaaggagat
 46921 acagtctcag aaggagcaga gacaaggaag agtcaatgat gccagtgaa caatgggata

FIGURE 3 (continued)

```

46981 aagcttagga gtgttcatcc tcattcataa ttccatagcc cataaacgtg cagaccacaga
47041 cttgaccata atgtgactag atactaacag ggagtaatta agtttatttt ttccatatga
47101 atttcacaga catatacaat agcatgggta aaagaactaa attaatTTTA tggtagtaat
47161 tttttccaac tctgatattt tgtgtcagct cctacttgtc ccagccatgc ctatctgtgg
47221 tctgcggggc ttcaaagggc agcctttgtg ttgcccagg ccagcacagt ggtgctttgt
47281 gcagggggcat ccctgtgcct cctggaattc gtctgcccc tgaagctagg tggctgggtg
47341 tcgtggccag tcctctaaga agcaggtgtc cccactaccg tccaccatgt gtgtcctgtc
47401 tgcagaacgt ggctactact cagatcctgt ttctcactca agttctacct caaggctcgc
47461 actctgtcaa gtgatgtact tcttgggggc catctgcctc gggggtggaa attgtgaata
47521 gaaetgtagc ccagagaatc attgagagac taggtataag ccagtggcag aacctcaacc
47581 aaaatgcccg gcttgtgacc cctagccctg ggctcgtgca cataacacac agtgctctga
47641 aatatcattg tttggggcat tattgtcact tttcttctac tgatgtggat ggcatgttgg
47701 attttatgaa tatcaattat tcagattctt ctcaaatagt aattagttag ttttgagagt
47761 aattaaggca atagatgtct ctacaagaaa agagaatgaa agaccctgat ttgtgtattt
47821 ggggtaagat cttacaacaa actggggcca ggtctggaat aaatgtggac aacttctagc
47881 acagcataaa agcattaaaa agtttattaa cacatcatgt cgggtgtcaat gaaaatcaaa
47941 ttggtataat tttcaaagaa gaaactaatg atactttaag gctgtgttta tagtaatact
48001 atctttctga aagatacttt gtttatgtac tatattaaca tagaaaaata gtaagcagtt
48061 tccagctaca atcagtggtt taaattaaga tgtaaatgtg ggtctaccag tgagaaacta
48121 aggcaaagt ctccatctaa gacagagttg ccagataaaa tataagatga tgcccactta
48181 aatttgaatt tcatatgaat aacaggtaat tttttcttat aagtaaaaaat ttcaagctta
48241 accgggcttc ccacattatt gttttttttt aattttgttt tgagatggag tctcactctg
48301 tcgcccagge tggagtgcag tgacacgac tcgactcact ggcttcccac atttttattt
48361 gttaagtatg gcaactataa tctaaaggac aaaatttgct tccaaacact gcccttgaat
48421 aagatccaaa gtacatatga tagccaatta atttgaaaaa tactctaata caatttcaaa
48481 tctcacagag gcagggtttc tcaacattgg cactattgat tttggggcag ttaattcttt
48541 gttgtgaggg gctctcgtac attgttcaat gcttaacagc acccctcgcc tctaccacca
48601 gatgccagta gcataccctg gttgtgacaa ccaaaaatgt ctagacattg tcagatgtct
48661 ggtggggagg gggtcacaaa atcatccctg ggtgaggacc cctgttctga gggagaagc
48721 ttatttataa gtacagtata tgtattaata tcttagtaga aaactaactt gtctgtatct
48781 tgaagaaaga agaggaaagc catattttat gtagccttta ttttaaaata tcatgggaga
48841 agcaccaatg gaaatggctg aggaactaga gagctggtag acgtgggatt attttgcagt
48901 ctgaggctct atgacagaag cttctgtttg ctccagcagc tttgagagaa aaaggcagta
48961 gaaagtactc atgacacggc tcagggtccc aatatagact tcatccaagg ctttgaaaga
49021 acagttagta cagagtctgc tgatttctgg aaaaggagtg ttttatttgg atagcaataa
49081 ctgaaattcc aacctagacc acctagctga ataattatat gtgtgtgtcc aaaaaacaaa
49141 ttgccaaagag atgcattgag aatcagaata ggaaaactgt ttactgtttg atttttcaga
49201 aaataattca acagggaatt ttgctaaagt gttgttccct ctattttacc caagaaaaca
49261 tatgaattta ttttgctgtc taaaccaaga aactaatgtg gttatacata ttatggggaa
49321 gtttttaagg aattaacgtt tagagtcttt gtggctctaa ttactgctct tcggttgtgt
49381 agtgagagtc actaagcatt ccttctccca aggaatttcc agcataatcc tgttttccac
49441 tcaaatctct tgtgattgcc agattggagt gaaaaatcaa atctactcc aatgaagaaa
49501 aactcaaaaa aaaaacagtg attcaaacaa gtttccaaag agaatacatg aacttcttat
49561 tctgccttta ttaattgaca tctacaattt tgtatttttc tcaggataat gcaaaaaaaa
49621 ttcttttgaa tcattctcac taaatttagg ggccaagtgt cctagctata ttgtttttta
49681 aaaaaagtta tgttaaagca gccagacttg gtggctcaag cctgtaatcc cagcactttg
49741 ggaggaggaa gcaagaggat tgcttgaagc caggagttca agaccagccc aggcaacata
49801 gtgagaccct gtttctaccc acaccctacc cctaaaaaaa aattagctgg atgtgctgtg
49861 agtcccagct actcaagagg ctgaagcagg aggattgctt gagcccagaa gttgaaggct
49921 gcaatgaacc atgattggac cactgcactg acaaagcaac tcagttctga tctacagttc
49981 attcttggat aaacataata cacaacacct agaaatacag caaaaaccca ttacccttaa
50041 gacaaagtcc agaattcctta ctgcagtcta caaggctcta aattatctga ttggagcaga

```

FIGURE 3 (continued)

```

50101 ctacactttc cccaactcca agttatatgc taagctgctc taagttagag atcaaaaaaa
50161 tagagtggct caaatgagat caaagttgat aattctctca cctaccaggg tagaagtatg
50221 cagtggtcag tggttcagag tttgtggaaa gtttgatcca tgaagccatc taaataaggt
50281 actttgaccc aagtactttc tatcttgttg ctcccccacc ttttaagacat tctcctcatc
50341 cacatgggtca aagctcactc accactaccc tcaactctgtc ccaatctgta gaaaggtagg
50401 cagagaggcc agcaaatagc tttcttttaa atttgtgttg ctgggtgggt cccccaggaa
50461 acagactctg agatggagat tagtgtacag gaagttcact atgggggtgct ccatgaatta
50521 tcacccactg gaggaaggga aggaagcaga actgggaaga tggaaaagtt aagctgcagt
50581 acagtcacaa caaggtctca tccaaattga tacggggcgt tgaagctgag ctggtccttc
50641 agagctggga tgagaccaga tattggctgc aagccattcc aggaaaggga tgtgaccttg
50701 aatgagatga cttttcttag ctgaggcaat tctcaaaggg agctgtcagc cagtagcctt
50761 gcagttggac agatggcagc acagcagagc atctgggaca ggatgtgacc tggaaatagc
50821 attgatattg tttggctgtg tccccacccc aatctcatct tgaattccca tgtgttgagg
50881 gagaaatcca gtgggaggta attgaatcat gggggaagggt ctttcccatg ctattcttgt
50941 gatagtgaat aagtctcatg agacctgaca gttttaaaag ggggaatttc cctgcacact
51001 ttctctcttt gcctgtgccc atccatgtaa gacgtgactt gcttctcctt gccttctgcc
51061 aagattgtga ggcttcccca gccacgtgga actgcaagtc cattaacagt ctttcttttg
51121 taaattaccc agtcccatgt atgtctttat cagcagcatg agaacagact aatacaaggg
51181 taaaccactt ccattcacc ctcattatct agaattgtcta gaacagccac catagttgcc
51241 acggaggctg ggaaatacag tctctagcta ggaggcccta tgcctagcta gcactaaaag
51301 gaagaaggga gaagggatac tggggagcaa tcacaagagg gaaggaaaat cattctttga
51361 tttgttcagc ttattgactg ttgtagatca aaaaccactt cattgaggaa agcaaccac
51421 caaacacaga agcagaaaaga gagctaaaaa tgggataaga acaactgaga aactgcttat
51481 ccagttaat attttaaaata gtgaggacta caccaaaactt aggtaggctt cagaatgagc
51541 cagggacaac tcccagaaac tctgcaggaa ggggctcctg aggacacacg tccaacctgc
51601 acctgaaacc ccaagtcaca aggacaactg atatttagat gcttttcttc ctaagacctg
51661 ctacatatca gaaaaagtca cttaaggtaa aagataaaat atgctgagaa acgattctgt
51721 ttcttaaaaa aaaagaaaaa aaagaaaagaa agaaacccaa acagtaattg tattgaccca
51781 agaaagcact attaaaatgt atcactttct gttagtgttg cttggatttt caacataata
51841 atgttctgtt taaaagaagg agaccaaagt atgttatta cctgaatgac agaattattc
51901 gtgcacccaa ccccatgac atgcaatttc cttttatata acaaacctcc atgtgtacce
51961 ctgaacctaa aataaaaatt aataaataaa taaaatttaa aagtaaaaat aaaaataaag
52021 gaaggagacc aagaaatact taagggccca ctcccttctt ttctgaacaa aatagccaga
52081 ccagcctctg ccactgattg aaccagggtg tggaactaa cataaagcag ccaccacctc
52141 taggatgagc ataagattat cagtgcctg tgaggaaact tggtataaaa actctgactg
52201 gtagtgacac tgtatgaggt agtgtgggca tctaaccaac caatgtgggt gtctcttgtt
52261 ggacaggaga gggatatgtg tgtgtacaac aggaaaaaca cattaaaact ctagaaaccc
52321 aaacagaggg agtaggaggg gccataaaat gtctgacttc tcaaattggt gatgagctcc
52381 tagaggtgtc cttggtctct tccccagagg caaatttcaa ctagagggtt aagctaagaa
52441 gcttatcaag actcagggtc tctcactttt cccctcacag gccactcca aggctctgat
52501 ttcttgggct ctctttgcct tggcttctg gccatcagt tccatcactt gagacaatct
52561 gagtgtcccc acaccaaaca cctgaaatac acctaaataa aaagcctcat cccatctgca
52621 aagtatgctg gaactaagat ccagattcac aactcaggaa atttactct acttaagtag
52681 tggcattcta tcttcagatt aaagtgtgtt tgaaaatctc taccctact gactggggct
52741 gtcacacgag gtcccacttg gccccgtctt gggactctcc tgcacagcac ttgactctgc
52801 tagacatcct ctctcctctc ccctgtgccc tcatcccat catctcccag aaactcagt
52861 ctggaacaca tgagacttct cagctgcata tcggcaaggc caagggatcc tcaaaacaag
52921 gcaagtttct gccctctccc gccatcaaaa gtgtgtaatt tctttgtttt gttttttgtt
52981 ttttgttttg ttttgttttg ttttttgaca cagagtctcg ctctgtcacc caggctggag
53041 tgcaatggcg caatcttggc tcaactgcaac ctctgcctcc tgttttcaag tgattctcct
53101 gcctcagcct cccaagtagc tgggattaca ggtgccacc actacgctg cctaattttt
53161 ctatttttag tagaaacagg ttccaccatg ttggtcaggc tgggtctcgaa ctcccagact

```


FIGURE 3 (continued)

53221 caggtgatct gectacctca gcctcccaaa gtgctgggat tacaggcatg agccaccatg
 53281 cctggccaaa tgtgtgtaat ttcttaaacc caaaggggtc tagccaggat cctgcattgt
 53341 catattttta gaataaagt atactctccat gaagggcccc actttgagtc ctatttatgt
 53401 ttgcctctgg gatttagctg tagctgggca tgtgtgatag tgggtagggt acagcctgcc
 53461 cagggtatat ttgcacctg gccatgtagc atggggttga gaaagcaggc tccagtattc
 53521 cacaggctct ggtttaaacc ccagctctac catttattag gtttgtggcc ctggaagagt
 53581 ctgtatcccc tctaagactt catctcctcg tttgtaaaat agagatataa taatactttc
 53641 acaaggctat tgtgagaatt aaatgatgta taattcgttc ttggcatagg gcctaaaacg
 53701 tagtaagcac tgataaatga cagttcta atagatatac ccataactaa gcgtctttga
 53761 aggaagttaa ccataaggta agaagaaagt caacttgatc cagtaacaaa accccagaag
 53821 gagagattcc agacatagct tggagcccag ctcttggtca tgtctccttg cccagcttgc
 53881 ctgttattca tcaactgagtc ccactgtagag gtgggattgt aagtaaatgt tgaaaagaat
 53941 ggtttcagta aaaactcctt aaggctttgg gatacagcac agtgttgtct tgataaccac
 54001 accaccactt cctacaatac atatgtccca cctaaccagg aaagagataa cgtctcaaac
 54061 tttgctttta atgtgtccca gctttggaat ctcacagtgt ccaaagcatc agaggatact
 54121 caatggatgt aacgggtggcc tccaacagat atgacctgg tcttcagggt atgtgccaat
 54181 ggtatgtagt agacacagct ctgggtccca acagaggtag tgatgattcc agcagtcagt
 54241 acagtggctc ctgcagatg tgggtgggac tctggaacaa gcagaataat gttctgtgga
 54301 tacagcagga cccttggaag catcaacatt ctgagactga ttgagatgtt agggagtcca
 54361 gatattctct aggctcagca aaagtggtag tggagcccaa ggatgtgggt ttagccagta
 54421 gttgggggaa gagagggaga aagtgtctga taccatggag tagctgcagg tatttattta
 54481 tgacctgtg tgggttatag cccaaggtag agacatttgg ggtatgagga atgtgaagaa
 54541 gagactttga attggacaag agtgaggaaa atagccaagg aactatggag tatacttcta
 54601 ttacctgggg tcaccataag cataaaacta agagcttcat ttacagccct gtatttcaat
 54661 gagaaagtgg aaagagcacc ggaccagcag tctgggagaa caggtgttaa tccaagtctg
 54721 tcacttaatt tcttcaaacc ttattgtgta tagaaaggag gaaaaagagt agcactcaat
 54781 aactgacgtc ttttctttga taattttatt tcatcactac cagattcaga taaagccaaa
 54841 gtcttgctaa cactccttgc cagttgaaat gtggtgactc tcaaaaactt ggaaatgtca
 54901 ccattctggt aagaaatctt ttaatggaaa ctttacatct tctaaaataa ttaacattca
 54961 gtactcaacc ttagaacatt ttccaaattt agatgagaag agatgaagca agggaaaaag
 55021 gtgtaaccct atcatacttt tctttttggc gttgaaataa atatccagtt aggggatggg
 55081 gaaagttttg gtttctttag tactgagttg gtggcagcaa gagctaagta ggggctgagc
 55141 atctcaggta tgggcttccc tttagatgat cagctatcag gttctgcca ggtgagtatg
 55201 ccctgtggg gcttgcaagg cctagtcagt gtgggagacc ctctataaag gcctacaagt
 55261 acttagggag gtaagaggac accccctcaa gggctgaagc ctgtctcacc tttgagggca
 55321 gtgagatcac cagtatccct gtgagctgta taacaggaag gataagtcca tgttctgggtg
 55381 ccgatcccta tgccttttgg aacattttct cctctgataa gaaacctcct tataatactt
 55441 tgtttcactg gaacaacatc atcctcatca ttagtaaaat gattgctggt tgtcaacatt
 55501 cacggagaag gtccctgggg aaggtcagct gttgcaggga agactggcat gctggctccc
 55561 aaggcaagtg ttcccttcca tgatgaaggc accagggacc agggtcaggc cttcagtcct
 55621 agagatgcag aaactcttgt cagtgcctga aagaagctga agaataataa gcagactgcc
 55681 aatgttgta ttaaaaggca aggtatcttt tacgaggtga gcattagcat cagcctggca
 55741 agtacattct tagacaaact gcacggaagc caatttaaca gaaagtgtct tggcaagcaa
 55801 caagggatgat gtttaattgg gtcagcctat aattacatga tgcattccatt tccaccatgt
 55861 gtttctgtct gcctcttggg ccagaagggc tgtctttggg gccaggaaga ccttccctg
 55921 gacagtattc acgcatctac tgccagactt tgccctactg actcttccct gctcacacat
 55981 tcccaaacct caatgactca ccaattccct ttctgattga catggtcttg ccttaaacgt
 56041 gttgatgtct ttaatcaaga cagattaaag tgaagtttct ttttctgga agatgtgact
 56101 gcatactgtt ttgaccgatt atatgtgctc agctggcaaa gggctatgtc ccttcatagc
 56161 ctaattcttg gggtcacccc attgttgctt tcttccata taacacctac actgtagtgt
 56221 tgaaatgtca tcatgtttta ttttatttca ttttattttt ctgtgttctt tttctgtgtt
 56281 ccactgattt ttttgagtgg gattggtctg cgaaatggta ttatttttag cacaaaatga

FIGURE 3 (continued)

```

56341 atccagtgag acaaaatctt gtaacaaatt caactgtttc actgtatgaa agcagggcag
56401 gttcttttact gatgacaatt tctgtttgag aaaccaaact gagttcttca taaatgatga
56461 acaaataata tacacatatt attgtattta ggattatagt attgctagcc ctaaaaaatg
56521 atcaatgaag tattggcaat gtgaggatgat aattttttgt ttctcctttt cataatagat
56581 ttgacctgtc ctgttagtga ttgacctgc ccgcagctac ccaaaacctc aagcatagac
56641 aaactgctta aaattccaac gtttgatgaa ctgattcaaa acggatagat taaccatac
56701 cacactccct gtgctgacac taatgaaaaa acaaaacagc aaaagagttt ccacttccca
56761 gatgtcaatc ttctatttgc tttaatcatt ttatatttat ttattgatcc attcaattat
56821 gttgggtttat tcctacttaa gttgttccaa agcatttaag acagatgata agaacacaag
56881 ataaaaatca ggatcaagaa aaataaaaaat aaatgttaga tgacaaagat gggaggagga
56941 attagaatta caaagatgtg tagaatgcta gttcctacat aattattaaa atggaggcca
57001 atgttcaagc tgggcttccct ggtggcaaaa gcatacatga aattataata ggtacaaaat
57061 aataccgtaa agaaaacctc cccaaataaa gaaagctttt tcttggcact cgaatctgaa
57121 agaaattttt tatttagata agaaaatctc agtgatatgg ataacacaat accacaatac
57181 aatctaacia catgcaaccc aacaaaatgt gtgttttttt aaggaatttt gttctttgct
57241 caatttcttc catctactaa tttttaata atgcatectc tgtctgttca tttgaggtta
57301 acccaaatat tttaatatat aataaaatct aagtttaaat ctttttacct gcttctgaaa
57361 aatacaaagg gattataaga ctaatcaaat tgcttcccat gccactttat ttgttgtttt
57421 agttgagtggt gttagttcta ttttgctttt taattctaca aattaaacac tattattatt
57481 gtcataacca ttgttttata tggccagtgt tgaagtgtat ttatttataa atgtctttgc
57541 tcaccatttc ttcttgaatt tcagactttc aatttggatt cattttctgt gagcctcaag
57601 tatatccttc gaaattttct tttgtgagga tctatactca gttttgtttg tcttaaatgt
57661 cttttatttt actcttattc ttaaacgata tttttactaa tctgtgggatt tgggattgat
57721 cttttttttt ctttgacacg ttgaaaatga tattctggct tccattaatg ctgttggaaa
57781 cactgctgta cctctaattt ttattccttt gtggtgattt gttatctttg gctactttta
57841 agatagatcc tctctttgac tctgttgttc tgaacttcca ctctaattg ccaaggaatt
57901 attttatttg tatttatctg cttgtgattt ggcttatcat ctttcagcaa ttctgaaaaa
57961 ctctcagcca ttttctcttg gaatattgtc tcttttccat tctttctact gtgtttttcc
58021 agagctccaa ttaggtgtat ggactttttc aaaaactctt tctttttctc ttattatatt
58081 ttgaaatctc atttctctgt actatatatt atatgatttc ttttagattta tcttatactt
58141 cactagtatt ctctttgtgt ccagtctgct gtttaattca tacattgatt ttaatttaaa
58201 ttatatttcc atttacagaa gttccagttc aaatatactt tttttttttt tttttttttt
58261 gagacagagt ttgtctcttg tcaccagggc tggagtgcaa tggcatgac tcggctcact
58321 gcaacctctg cctcctgggt tcaattgatt ctctgcctc agcctcccta gtactgaga
58381 ttagaggcac ctgccaccac acccggtcaa tttttgtact ttttagtagag atgggggtttc
58441 accatgttgg ccaggctggt ctcaaactcc tgactttagg tgatctgccc acctcggect
58501 tccaaagtgc taggattaca ggtgtgagcc accgtgcccc gcccaaatat acttattttt
58561 taaacatttt ttatttcttg tcattatttt caaatgtctg ttttatttct taaagcatat
58621 taagtatatt tattgtatag tttacttctg atatttctag tatctgcaag tctgtgaaag
58681 tgtgatgttg ttgtctgcta tttcctctgg ctcttacttg gtgtgccttt tgcttagtat
58741 actttgtctt tgtgtgttgg gaggggagtt catgttcttt agaattgtat ctgcaggatt
58801 ttttgagaac tgggttaaagt tgggtgcctt cagaaaggat tttcttttac ttcgattgcc
58861 tgggaggact accagttctc tctgtgattg tttttttttt ttttcttgt catgctttcc
58921 acttccactg catttctcac tggctcaact atagtagcat gaatttggaa ctacaaaacc
58981 acaagaagca acatcaacta tgaagtatca ttgataaaaa tatttaactt gaatctaact
59041 atgagaaata attgaccaa tcaagactat aggacagaat ctaggacatt ctatagagcc
59101 tggattcttc aaaaaagtca tacacacaca cacatgtacg tacaccttaa tttataagat
59161 agaaatcaaa agaaactaca gagatgaaca gcccaatgca aggcattgcc ttcattgatt
59221 tctggatttt ttttaagtcat aaaagatatt tgggagtcac ttaagaaaat tagaatgcaa
59281 actgtatatt aaatggcatt atggaattat cattactttt cttaggtgag ataaggatat
59341 tgtaattata caagagatgt cttcatctc ggagatggct gctgaagtat tgaagggtaa
59401 agtgcctgtg gcttataact ggctttcaaa cagacaaaaca aaaaaagctg gtccaaaatg

```

FIGURE 3 (continued)

```

59461 gcagtggcaa tggatgtgga taccccaaga agtaccaaca gcagtgcttt gaagtaaaaa
59521 agtgaaatgc agtagctagc cctctgggct tgggatgttg tggttaataa ctgtgccatc
59581 tgcaggaatc acagcatgga tctgcattga atgtcaagct aaccaagagt ctgccacttc
59641 agaagtgtgt accgttgcac ggggagcctg taaccgtgct tttcacttca ctgtctctct
59701 cactggctca aaacacaaca gctgtgcctg ttggacaaca gacaatagga attcccaaag
59761 tatggacacc agaaaaagaa ttcttccatc aagcttaact gttttgtgat tcatttaatg
59821 acttgccctt ctgtcactta attataaatt agatagaact gtgtcttttc tgctttgtct
59881 ttgccatttg ctgttctcgc agccacattg tattctgtgt caaataaagt ccagttggat
59941 tctagagcga atgtgtcttc ctgtgtatgt gaacaaaagt gaacgtaaat gaagggtccc
60001 ctcttccaag gctgaaaagc cactttttaa aagtgaatg tgccggggcg agtggtcac
60061 gccgtgaatc ccagcacttt gggagccgag acaggtggat cacgaggtca ggagatcgag
60121 accatcctgg ctaagacggt gaaaccccg tctgtctaaa aatacaaaaa aaattagcca
60181 ggcgtgggtg caggagcctg taatcccaac tactcgggag gctgaggcag gagaatggca
60241 tgaaccggg aggcgaaagt tgcagtgagc caagatcgca tcaactgcact ccagcctggg
60301 tgacagagcg agactccatc tcaaaaaaca aaaaacaaac aaacaaacaa aaaaagaaag
60361 tgaaatgtgt gtccattaga gccagaacag gattgtcctg tgagtgcac gcttagtcag
60421 aggactccaa ctgtacaagg gggaatgtgg atcgctgacc ctgaaaacag cagtcagccc
60481 tgtcttcttc tgggtgtgata gcagcaggca gctgaatgag gaaagaacgt gggattcaga
60541 gtcacacac ccagctctga gtcttggtg cataggtctg ctactgatgg caatctcggg
60601 cagtttgct gtctacctg agcttttctc ctctataatg caggcttcta aggactacat
60661 gccattacat ggggcacaga aagaggcttt ataaaatgca aaaccactat agaaatgtaa
60721 aattgcatg catatgacat gttgctttct ctcttagct tagaaaaata aattttaaaa
60781 aattgtaata tgtaattctg gctggcaaat gtagaactc aattttaaaa ctgatgtcac
60841 ctaaaattga attaacacaa gagttcaagt ttcttttact accactacct catcacaact
60901 tgttaaaatg ttttgggcca cagaaggaat tgccaattct agtactaatt tggtagctat
60961 agagaatctt caaccgagaa acagttttgt tgcagtgggt ctcgaaatat ggtctgagga
61021 ttcttggggg tacctgagac catttcaggg ggttcacgaa gttctccctc caactgcaag
61081 tccatgtgaa actagttttt ctctatatac tttaaccaa gcagtgcac aaatgaagaa
61141 gcagacttga gaatccaact gtcttccatt gtcagacata aaagagattt gcaaaaagg
61201 aaaacaatgc tagtcttct actaaatttt ttcattttga aaaatagttg attttaataa
61261 aagtatgtta ataagtga aaacattatc tatacacaga cacatacaca catatgtata
61321 ggcatatgag ataaagtagt gactctaaga gcactgttca tagtactttg ctcttagag
61381 acagggtctc tgtcatccag gctggagtgt cgtggtacag tctagctca ctatagcctc
61441 aaactccag actcaaggga tctttgcac tcagcctcta catgcgccac tacatccagc
61501 ttagattttt gtattttttg tagacacggg gtctgtgttt tgtatatttt gtagagacgg
61561 ggtctgtgtt gccctgactg gtcttgaacg cctggcctca aagaatactc ttccttcggc
61621 ctctaaaagt acaaggatta caggcaggag cagctgcact tggcctcatt gtacttttca
61681 ttcaactttt ttgtaggctc aaaatttcca caaattttta aattttgtgg gaaagtgtaa
61741 aaacaaacca gaaaatcaca tgaattcccc tagaggtgtt ctctctact ccacagccaa
61801 aatcgggaga ggcaaatttc ttgtctctc cttttgggag gagggtttat gtctaagcta
61861 ccctacactg aggtgcgac tctgatgtc tcagttttct atgaaagggt tctactggg
61921 cttttcaccc taggatgtct ttttcttaat ctcttcaacc cattatgctg atacaacaga
61981 agtttaagggt cccaggtttt atcaggcact ttcagggtaa aatctagctt tggcactcgc
62041 tttccctctc aggactcagg ctttcatttt atatttggtc tctatacgtt tcttgctttc
62101 ttgccagctc aataattcat ttaattttta aatttctacc ccaagttttt agttattttc
62161 actgggagga tcattcaggg tatgtcatca cattacacta ctagaaacaa tgcaacagca
62221 ttttaaatgg aagttaaatt gcaatcactt ttcttccaat tcttgagag attcaaacag
62281 tggttacagc cacaagcaag agattcaaat agtgggtaca accacaagca agttttgaaa
62341 aaaaaattct ttaccataat actgtaaaaa agcttgtggc cctaaggcat aaatccagca
62401 tgttcacctt tcaattacac agttgaaaat atagttgtct caacacaaaa aggtgtctca
62461 tcaaaccaat ctttctccct aatttgtgca gctcatttat tcaaattatt gtgaattcag
62521 aattctacat tctgtacaaa aaaaagtatg aagataggcc agatcatgag aaaacacctt

```

FIGURE 3 (continued)

```

62581 ctcaaaagtc ataaatacgt tcataacaat gtggaaatag ccctgttgac aagtgcagta
62641 catctctttt ttcattgcttt ttaatttgca aggacatttt tatataagaa gcagggtttct
62701 aaagccaatg tcattcatgg tttccctttt agtgtagtgg gcttgggatc ctcgggatta
62761 gactactgcc tgaggatggg ccactccctt ttactcaagc ctccccctaa gatttaggat
62821 agacctttcc cctggataac tgagtagggt atcatcaatt tccttagttg caagaacacc
62881 agcctcaatt atttattaaa gaaaaataaa gaaaaaggta aacagacatg attctgcaaa
62941 aaacaaatct cagaattata acatcacatg aaaaccaggt ccctgattat catggaataa
63001 ttattcccga gtgtccatta cagggtttag atgctggata tttttatcct gagaccttgt
63061 ttggcctgaa ccagcccttg aactctattt gtctcatctc tacattggac aatataccta
63121 gctgtacctg catatacaca tgtgagatat atcgtatctc tatataaagt aacacacact
63181 ccacttgagt ttggagctca gtatttgctc tgttacaaaa gcagctgaaa tcactcatte
63241 tactttagtg cagggaattt aaaatttact ctaagtccctg ctgtattttc ctccatttta
63301 caagagggtt aggtgcccc tccctaacag agtatgctct acttgttcaa agattgtcaa
63361 caataaccta cagtttcccc gtttcctctt atttaagctt tgggtgataa tagattaaca
63421 aactcaatta caaatggaaa catctgaact ccactgtctt aatttatttta gtgtgtctgt
63481 aacagaatat ccaagactgg gtagtttatt ttaaaagaaa gagagagagg tctatttggc
63541 ttatgattgt ggtggctgaa aggttcaagt ttgggcatcc acacacatgt ggtgatggcc
63601 tgaagctgct tcaactcttg gtggaaagca aaaggggagc tgggtgtgtc aaagagatca
63661 catggtggga ggggaagcaa gagagaaacc aaggagccag gctctttctc acaaccatc
63721 ccattctaat ccattcccag agagtaagaa ctgctcacc tttgtggaag ggcattaatc
63781 tattcctgag gaatccatcc ccaggattca cacacctctc actaggggccc acctccccac
63841 accaccgcaa aggggatcaa atttcaacat gagtttgggt gggacaaaacc atctccaaac
63901 catagcacc acaaaaataa agataataat aaggaaacca ccatgtgcca ggcactgggt
63961 taagtgttta tattcatcct ccaactaaga acagtactat tggcttttcc actcacctga
64021 aaacaggtcc cattagcatc ttcattctat gaatgaccac tctaaggaaac agaaccatta
64081 aatggcttcc caaggtcata tagtcatgga gccagtatta aaggctgttg cactcctaac
64141 caggacacta ccccttcttg tttttaccgg ccactctcag aaatgtttca agatcatgca
64201 tcttggaat cagtttcagg tccctgaagt cagaagccca atgctgttca ttgagagcca
64261 tgatatgtta cgcaccaccc tagagctggg tcttaaccca taaggtagct atcgttccca
64321 tttcccagtg aggaaagtaa gacaccactc ctttattcat ccaagagcgt aaaggacttc
64381 cccaaggcca cacagctagt aagtggctgg gccaggtttc aaaccaggt gtggctccac
64441 cgtgctgct ctccagatca tacatagcat tatgatctct tcacgggaca gagctatate
64501 atgatgtagc atgctgggtga ccacaaccat tttggcaatg gctttctaaa aatacagaga
64561 aaaaaagcaa atactaaaaa actgagtttt tggcttcaca taatatgtga agaaggaagt
64621 acgttaaatt aattacaaga aatgcattct catggcctca attcacgtag tgtgccccag
64681 aagcaaagtt ttatgcattg attagacatt cactctccct aaggcagtg caggcaagtag
64741 aaggacactg tgtctagggt cagaagacct cagttcgagt ccactttctg gcatttcctt
64801 gggaagggtt ttcaatctcc ctgaccttca gttttctaatt ctgtgcagtg gaaattataa
64861 ctatagtacc tgctgaaaaa atttggctgt tataattata actatggcac tcatctgtcc
64921 cacctcattg ttgtaaaagt tagatgagat caaatataag acaaagctcc ctatctgaat
64981 gagatattta aagtgggtta ttattatgat gtgggtttct aggcagtaaa aacttaccat
65041 actcttccac agaaaaagaa aaagatgacg tgtggatata tgtttactta taataaacat
65101 gcatatatat gcatgcatga atatgagtac aaggacatat gtattagaac attgtggtgt
65161 gcaaaagaag atgagaaaaa ctagtataaa tctcgcagaa gaagccctga taaagtatgc
65221 tagggcaagt ctgcaggcct ctgatttttag ctgcttaact attggatata cagacagtgt
65281 tgaaagattg tgttcaaggc actgcagccc tcagagaact agcccaaaag cccatgacct
65341 cacaagcaac tttaggggagc tgcgtgtggat gaagtacctg gccccactgg aaaggcacta
65401 gaaaatgagc tcttactttg cagggaagtgg tcagggaac atcaaggaaa gaagaaggaa
65461 tcatcaatgg ggcttggggc tcactcagga ggagctcttc ctgatagggt ctttaaagga
65521 atcagtgtc aaaacccctg gatgtgatga gctcattcat ccttgaggga cctttgtctg
65581 cctctcact gtccctctga ggtccctcac gcgttccctc tctctgttct tattccaaat
65641 tccctacta catttactca ccttggtatt ctgggtaaac tttattagat ttgttacatc

```

FIGURE 3 (continued)

65701	tatttttccct	tccattagct	caatttttta	atgtggtagc	caaaataatc	aacatcacta
65761	gtaattatac	ccatactcaa	aaactcttct	ggtgaagagg	catggcagaa	ctccacaggg
65821	aaatccctatt	gtgaggatta	tataggctcg	aaagtcattt	ttaactgaca	tgcattgataa
65881	agcacatgct	acataccaat	ggaattttaac	gttcaaattg	aataataaac	tatgttttgca
65941	gtatacattt	ctagatccat	acatgaaatc	acattttccat	taaacagttt	tcaagtcagt
66001	gaccaattcc	ctcctacttc	tcttgaaatt	tatatgaacc	tggatcattt	taataccact
66061	ggaaagaaac	actatactta	gaaggagatg	aacaacagat	ttaatatattt	ttcgttttgcg
66121	gtactaggag	gcaagctggt	aactctaatg	ccctgtgtgc	ctcgactcct	agatctgagt
66181	agtcaataag	aaagtaggga	agggactacc	agcaagaaaa	gaagccact	aatatttcct
66241	tctccttcc	tctgtgtttt	cttctgctta	ataattgagt	ctaataataa	tggacaagga
66301	ttgpcagaaa	aggcatgac	tagaacaggg	gtcagtaacc	ttttctgtaa	aggaccagag
66361	agtaaatac	tgagcccttc	gcaggccaca	tgggctctgt	tacaactact	caactgtgcc
66421	attgtgccac	aaaaatggac	acagcattgc	tgtattccaa	taaaacttta	attatgagcc
66481	ttgaaatttg	aattttcacat	gatttttcaca	tcacaaatat	taaattccaa	tcatttaaaa
66541	ctataaaaaat	tattcttagc	tcactgatcc	tataaaaaaca	agcagtgggc	cagattcagc
66601	ctataggcta	tagttgccag	tccctggtct	aaaactttta	atacattaag	agtattcttc
66661	tcattaaaaac	cactgaaatt	gaagtcattt	tctctctttc	tgccatttta	cttttcccta
66721	agactttaat	ttttttcccc	acactctcat	tcccattctg	atttaccagg	acattacttc
66781	tctctctac	ctcacatatt	tgttttattg	cactataaac	ctcactggag	aataaaaacta
66841	tttgccaaaag	accacctgt	aaacaccag	cactgcagca	gccactaaca	aagaggaaga
66901	cacagaacct	gtggccaatc	atgtggacat	tggcaataat	ccattccctt	ctccttcttt
66961	cttctgtgta	gagtcacact	cttataatag	tctgaagaaa	acagattggt	acttttccac
67021	cttctgtgca	aacaaagggg	tatgtctgtg	accaactcct	ggacagtaag	acctgaagag
67081	aagtctgttg	gggtgcttct	aggaaagggt	tttctcactg	gaaaaaagaa	agctacaaga
67141	gcagaatccc	caccctctcc	ttgtttcccta	cttttagatg	atatcatgta	aagagacagt
67201	gttttagagct	gcagcagcca	ttttgcaacc	atgagggaaa	tccaggaatt	ggtccacagg
67261	cataacatca	ttaattcacc	aaagcacctc	cacagctctc	tccccctgga	cttctgttg
67321	taggcaataa	taaatcccca	agatgggaat	ttgtttgcca	tttattacac	cgacagactt
67381	cattcttgca	aagcttacat	tgctagagga	gtgatgtgac	acataaaatg	aaaaaccctg
67441	tacaaaaaaa	cataaaatat	caggcaggac	acagcggctc	acacctgtaa	tcccagcagt
67501	ttgggaggcg	gaggcagggt	gactgctcga	gccaggaggt	tcaagaccag	cctaggcaat
67561	atggcaaaat	cccatttcga	caaaaaaaa	tacaaaaaatt	ggccaggcat	gtagtggaca
67621	catgtaatcc	cagctacttg	ggaggctgag	atggatcact	tgaggccagg	aggttgaggc
67681	tgcatgagc	cgaggctgtg	ccactgcact	ccagcctggg	tgacagagtg	agaccctgtc
67741	tccaaaaaaa	aaaaaaaaaa	aaaaaggaag	aaaaaaccta	aaataccata	actcctccct
67801	ccttggcagc	tctattcgac	ctaaatcaaa	atacgttcat	atctctccca	cagagttact
67861	gctctatata	tactttctgc	tttacagaca	aacttcttaa	aagttaatct	gtccttagca
67921	gggcacagta	gtgcacacct	gcaatcccag	ctacacagga	gactgaggca	ggagtatctt
67981	ttgaaccag	gagtttcaga	ccagcctggg	caacacagca	agacatcccc	acccaccccc
68041	acctccgcca	ctgtctctaa	aaacccacca	acttatctac	ccttaccatc	tccatttcc
68101	attctgtcat	cctcactcct	caaatagcaa	tactctgccc	ttctttcacc	cacattactc
68161	catcaaactg	ctttcaacag	agtcaccagt	gacttcccag	ttgataaacc	caagcacagt
68221	tttttagctct	tatctggcct	gacctctcca	cacaggtcaa	aatagtcgat	actatacact
68281	atacctcccc	cgcaccatac	tttttttttt	tggtttggtt	gttttgagac	agagtcttga
68341	tatgtcggcc	aggatggaat	gcagtgggtg	gatctcggtc	cactgcaacc	tccacctccc
68401	gagttcaagc	gattctcctg	cctcagcctc	ccaagtagct	gggattacag	acgcccacca
68461	ccatgcccag	ctaatttttg	tatttttaat	agagatgggg	tttcaccatg	ttggccaggc
68521	tgggtctcaa	ctcctgacct	caagtgatcc	acccatctcg	gcctcccaaa	gtgctgggat
68581	tacaggcggtg	agctaccatg	cccgccccc	aaaaccatac	tttccagatt	ttcttttgca
68641	tccttaagta	tttatttctg	gcttctcctt	ctactaggct	cttaataacta	gtgttcccca
68701	gtgttccctgt	acccccctcc	ctgttttttc	ttattttacc	cactcttttt	atatagtctc
68761	atctgtacct	acagctttag	tgaactaatt	agaagtaatt	tgtatttagc	agcactgatt

FIGURE 3 (continued)

```

68821 ttccctgttga aagttaacta ctaaaatccc tcgatgtgac agttctttta gttaggacaa
68881 acatgccccc aggaaatgaa gtaatactat tcatttgctt gcaaaccatt ttttcccat
68941 agatgaactt cagcccaa ataaatcaaac tatccaaaat tcccagctac ttgggaggct
69001 gaggcaggat ccaaattcat gtaattttcg tgtattttgc aagtttgttt tatgccatat
69061 taattcatta cactccacat catattttct tagcaaatac atctagacac ctggcactca
69121 gtaagggata ttccctggcac gataatcatt gttatcatta gacattgcag gaaccaccat
69181 atggatggat aaatgtgttg tttaatgaag gcaagcaatt actttaagag atcctagtgtg
69241 ttataaaactc tctctggact tcaagtttgg tatatacata attattaaat gtatacataa
69301 ttattaattg taacatgtcc tcacaattga tttctggcta tttttctaag gattttacac
69361 tttatttagt aaaatatatt aaagaggtta atgataattt ttttatagag acccttagat
69421 tgaaaatgac tgatttttca cactctttt cttgctttac taatcgtcag tgccataattg
69481 ctaaagcaaa atatcttcta aattctgggg aggaaattct actttgggcc aggcgcggtg
69541 gctcacgect gtaatccag cactttggga ggccgaggcg ggctgatcgt gaggtcagga
69601 gattgagacc atcctggcta acatggtgaa acccgtctc tactaaaaat acaaaaaaaa
69661 aaaaaaaatt agccgggcat ggtggtgggc acctttagtc ccagctactc gggaggtcga
69721 gataggagaa tggcgtgaac ccgggaggcg gaggttgacg taagccgaga tcgcgctgct
69781 gcactccagc ctgggcgaca gcgagactcc atctcaaaaa aaaataatag gaaattctac
69841 tttgaattgc acactaatca aaagactcca gcttcattta cagagacctt atctgtgcta
69901 agtagttttt ggaatagctt ttttctgtc acttaagcac ctctctttat tattaatagt
69961 aaactaaata ggagtcctaa gtctgccttt ccagtgcta gagtataaat gtcacacac
70021 ggtagaatgt aaacatcttt tttttttatt atttttattt ttttgacag ggtcttgctc
70081 cgtggcccag gctggaatgc agtggcatga tcatggcttt cactgcagtc tcaacctctc
70141 gggcccaagc aattctgtca cccagcctc ccaagttcct ggggccacag gtgggcacca
70201 ccatggctaa ctaatttttt aatttttttt tttgagacag agtctcacac tgttgcttgg
70261 gctggagtgc agtgggtgcaa tctcggtcca ctgcaacctc cacctcccgg gttcaagcga
70321 ttctcctgcc tcagcctcct gagtagctag gattacaggt gccaccacc atgcctggct
70381 aattgtttgt atttttagta gagacggggt ttcaccatgt tggccaggct ggtctcgaac
70441 tctgacctt gtgattccacc ggcctcgcc tcccaaagt ctgagattat aggtgtgagc
70501 tactgcgcct ggcctgattt ttaatttttt atttttatag agatgaggtc tcactatgtt
70561 gccaggtttg gtctccagct cctgggtcaa gtgattctcc caccttgga tcctaagtgc
70621 tgagattata ggcattgagc tccatgcctg gcccttttat ccatctttta atgttaataa
70681 ttatatccat ttctgtttcc ttcaaaaatt caagtggaaa acctgacata aataatggta
70741 acttttttat tataacctata tcaattaaca catatgtata aaacttctac ttagttgtgc
70801 caaatatcag tgcacagtat ggggtgatttc cccacttgc gaagaatggt gctatagtca
70861 ccgcacagga gcaggataga tccccactct caaaattggg tttggatata aaaatcaata
70921 atgccatcac acatgcagca aaggggtttg aaaggtttat tgctcacata atacgttttt
70981 ttgggggaga gtaagatggg cttccaagct ggtctgaaaa ctagagagaa caagaaagga
71041 gaatggcttt gggattctta ttgtggttag gagtggggt gtggtgaggg ttcctgtaca
71101 tgggctaggg cttactgttg gaactttgtg ctagtgcctg ggaaggagca cctaggcatt
71161 cttatcagtt tgctcagatg tggggcagag aggaaggga gtggtggggc ttgagaactg
71221 tctgcagtc aacatcaaaa attaatgcat actctgtatt acaacaatta gaaaagaaat
71281 aaaatgtagt atatcagttc tctattgcta caatattgtt acataacaaa caacccccaa
71341 acctcaatgg tatacaaaaa taaatgtgtc ctgctcacac atctggagtc aactaaacag
71401 ctctgctgat cttgcctgaa ctcatcctc tgtcagcttg atcttggttg gctttgccag
71461 ggggtgggcta taccctgtc tatgtctctc atcctccagt aggccagcac aggcattgcta
71521 tcatggcaaa ggcaaaaggc caggagtaaa ccagcccaat aacacaagca ctttttaagc
71581 ctctgcttgt ggcacttttg ccaaaatcct gttggccaag catgttacgt ggccaagcca
71641 tgagatgtgt acacagaaaa ataaaagatg tgtacacaga agagcaaaaga attggggcca
71701 tttttgtaac ctactgcacc tattaatgga ttactaatat gtcacaactc ttatcctaga
71761 ttacagtatt aagagaagga aagtcaattc aatgatatat ttactactaa atgttaggta
71821 ctgtacttgg aattagagtt acaaaactaa atgagataat cctaaggagc tcacagttgg
71881 atactggaaa aaaaatcaaa caaattaata cattattaaa ataaatgaaa taaaatccaa

```

FIGURE 3 (continued)

71941	tgtaagtaca	tgaatagata	ttttaataag	aagtggcatg	gaaatgaaaa	taaactcttt
72001	tgtctccttt	atcatatatt	tcatagctaa	ttaaattaat	tttattataa	tcaaattttac
72061	tgtagacctg	aggacataaa	gtttactgag	actccctagc	gaatggctgc	ataaaaaatgc
72121	aagccctcta	aaagcaaaac	cagattgtaa	attctgttag	gctaacagaa	agtcatttga
72181	ttcttttgtt	tttccgttac	acttagtagt	caacccaaaat	ttattgtgtg	cctatatgtg
72241	tgtatttagtc	agagttctct	agagggacag	aactaacagg	atagatagga	aggggagttt
72301	attaaggagt	attgacgcac	gatcacaaga	tgaagtccca	caataggccg	tctgcaagct
72361	gaggagcaag	gaagccagac	tgagtcccaa	cacctcaagt	aggggaagctg	acagtgcac
72421	cttttagtctg	tggctgaagg	cccaacagcc	cctggcaaat	cactaatgta	ggtccaagag
72481	tccaaaagct	gaagaacttg	gagtctaattg	tttgcgggca	ggaagcatcc	agcacagaaa
72541	aagatcaagg	ccagaagacg	cagcaagtct	gctcttcctg	cttctcctgc	ctgcttttatt
72601	ctagccatgc	tggcagctga	ttagatgggtg	cctaccacaga	ttgaggggtg	gtccgccttt
72661	cccagtcac	tgactcaggt	gttaatctcc	tttggcagca	ccctcacaga	cacacacagg
72721	agccatactt	tacatccttc	aatccagtc	agttgacact	caacattaac	catcatgatg
72781	tgcaagctat	tttgctggga	atttgctagg	atcgaaaatt	cctagttttt	ttgttgtttg
72841	tttgttttgg	ttttgaatct	ttaatgagaa	aaaatactat	tgtgctcaag	aacaccgtgc
72901	gtctgggtg	tcattgggtc	aagggttggg	gacacacatg	gcagaattca	gaaacagggg
72961	aacatcaaca	aaaatacaca	cggtcataaa	aagaaaaact	ggcacctggc	atgatcaact
73021	ctgtttcctc	atcattcagc	agcatgttgg	ggatcctgcg	gctgatgggg	aacacacgtc
73081	cagactctgg	gcactgcagg	gtgcccctca	acacatctac	ctccagcagc	acgtggtgca
73141	ttgtcctcac	catggagatt	cctagcaaat	actctaggta	ttttaaatag	aagaaattta
73201	atacagggaa	atgattacat	atatagtaga	agaactgaga	tgtcaaacag	aagagtggag
73261	caatccacat	tttagcaact	gcagtaagtg	acctccaatg	tcattggctgg	aggggtgcaa
73321	tgggtgagaag	gcagaagcta	gaatcatggt	ggaccccacc	tgcaagagtc	acaaagaaga
73381	tgcattccatt	caggtcacag	agaagtaaat	actctagtgt	ctaccttcta	ccttcttatt
73441	gctctctagt	ctcccatttt	atctagactg	ctgacaagca	tgcagtggaa	ggtgagcacc
73501	agatctgaga	ggaaacaggc	agtgtctggt	ggcacactac	acaagaactc	tcacaggcat
73561	ccactaggct	tgcttgggtga	ctcatttaag	gagtaaccct	attttatgta	tcagagtagt
73621	ctatgggtgtg	atatagcata	ttgctgcttt	tgatgtttgg	tttcatttgt	tcctgttagg
73681	cacctaatca	ctgtttttta	aattccccag	gagattctgg	tatacccaat	cagctgagaa
73741	ccactgaata	gtggctttca	aaattttgag	catccaaata	ttgtcttcac	agaaaatctt
73801	aatctctgaa	gtctactgta	aaaacataga	aaggcaaggc	tgttctgctt	gaagcgtagc
73861	ttgggagcct	agattcctct	caaaccacag	ccactcctgg	gaacatggtc	tggagatttg
73921	aatgttccca	aatctagttt	atctcattag	tcgatattta	tgcacatcct	ctgtgtctct
73981	cagtgttctc	tcattgtgtg	acatatgccc	cattccaaag	agtgactgta	gtgtaatgtg
74041	gcattaaaag	aaccctggat	agacctgtat	tggaccttac	atattagaga	gctctgcaga
74101	tagctcacaa	atctccaagt	cgctagctgt	aaattgagtg	ataattgggtg	tcaggttatt
74161	ttagcacagt	ttggggataa	aatgggtgcat	taatctccca	gtttgtggct	tattaaactt
74221	tgaaatggaa	ttatttgaga	cataaaaagag	atagcaatac	tttgcaggat	gttctccatt
74281	agtcgagatt	gttacagagg	agaaattttt	gccactgttt	atcaaatatt	tttctcctta
74341	gttaatccat	atcattccgg	gagctttgcc	caggaaaagg	acgaattact	tgcgttctct
74401	cgatctcttt	caagttctac	tcccgtaact	ttaaactgtc	acacggaatc	tttggtgaca
74461	gaggaataga	ggtgggcaag	cagggcggtt	ggaaaccata	ctgaaaacga	attatccata
74521	aagcacagat	tcaccagcct	agaaatggct	ctgtctggat	ggattccttg	agatgtgttt
74581	tatctccatt	aaaaacacaa	caactttcaa	actttcactg	tgtctcaaaa	tgatagagaa
74641	aaaaattcag	cctttcaagt	attcaagaaa	agcttgaaga	aataaaaaga	actcgctgct
74701	ctctgggcca	ctttaggagg	cagagcgttc	ctggagaact	tcaggattca	ttcgcaaggg
74761	aacccaaggt	gggcattcaa	agccgatcca	aaggatatct	ttcttttttag	aaaacaaaag
74821	gagcgcaagg	agtaggggac	tgaagggtgcc	caaagctagt	gggtcagtg	cactttcttc
74881	ctccctttcg	cccccttcc	cccgtcctt	tctccctgt	gggtctctgt	cagcaccct
74941	ttctctccag	ccccgaactgc	ccatcttcgc	ccctaccctc	gcgcgtcggg	gcccgtgtcta
75001	caccaccccc	aggacctgg	ccgtccaggc	tccttcccat	cctcacaccc	gcgcctttct

FIGURE 3 (continued)

```

75061 ccctgcgggc ccggetcgct gctccagctg ccagctctt cccaggacag gggatccgc
75121 caagggggcc gcccccgccc cgccctccc ccgcccggcc gcaccataaa gcgcccggcc
75181 gctgccgagg agcccagcag ccagctcccc agcaccggcg ggcgggggacg cgagcgcgcc
75241 cccgacggca gcccggacgc cgagcacggg tcacctgagg ccgcccggcc ggcgcccagc
75301 gaggttcaac gcacggcccc gggacccccca ggcgggggcca acgcccggcg ccccccgcc
75361 ctgcggggga gcaggaagag ccaacatgct ggccccggcg ggagccggcg tctctctgt
75421 gcacctgggc ctgcagcggg ggctagcggc aggcggccag gccaccccc agggtaagt
75481 gggtcggggc gggcctggga gcgcccggca ccgggtgccc catctgtga gtgagtggag
75541 ggacttgctc ggccctgtgc tctgtggcc ttgctcagcc cctctctgt cctcccggc
75601 ccaatcaaa catattgtga ttggaggtag tgattagtct agaattttcc gaaattcgat
75661 tatccaatga tgagaacaat tgcctaaata gttgggggat gcaaaattgt ttcagactat
75721 gcaaagatgt ggggtggggg tgcctcaaa acttgctaca cggctcctaga cctcttaaca
75781 tgtaggctc tgggtgtagg tgaattccgg gtccctgcacc ctgtgcccgg tccctccagg
75841 cagccttgct ccctaaatcc tccctcaggc ggagcgatgt atgcccagag tctgtcttg
75901 acatccctga gaaagacgca gaattactct acttgccctg ccacctgcat tttctgctct
75961 gactttgctt gaacgacaaa aagaaagtgt atttcaagga ttggcttgat gtcttaattt
76021 ctgaggtaaa taggaagggc tgagaaactg gtctttttca atgaaatcag tttttgagc
76081 caagatggat gcagctggag gccattttcc taagtggatt aaggcaggaa cagaaaagca
76141 aataccatgt tctcacaagc gggagctaag cagtggatag atatggacat aaagatggaa
76201 acagtagaca ctggggactc caaaagtagg ggggaagggt gggaaaacta ccaattgggt
76261 actacgttca ctgggtgatg tgttactag aagctcaaat cccaccttat gcaatgcacc
76321 catgtaacaa acttgacat gtacctctg aatctataat ttaaaaagaa aaaagaaaga
76381 aattgatctt tttctatgaa acggtaaaaa ttcaacaaat aatgtgaaaa gatacttggg
76441 caatccctca accccttggg gaaatgggg gaaatagcca ttgggtagaa agcagttaaa
76501 cagaattttt tgtaaagacc aaaaggaaga catgatttaa gcaaagaaag atcttagggc
76561 tataactggc cctaactggg caggcgtgag ctcatctgt ttgaacttgg tgccctgggt
76621 gatattattac tgactgtgga agtaaaactg gaagagacgc acaacttgaa gtaaaagtgt
76681 ttttctctct tgtagccaga gcaaagactg cctatgaggg cgttctcaac ttcctgtcct
76741 ctgctgctg gaatcaccca tttaaactgc atttcgccaa ataactcatt ttcattccag
76801 accagacaac cagaactgtg gtttcagggg ttagagtact gctaactttt agtttgtgtt
76861 gaagtatttg aaatgctgta gtccgtgccc catacttcta ggaaggtaaa aaaggaagct
76921 tttaaacact tcaaaagtct tattgtgatg atatttggca agttcaaatt tataggtata
76981 atttttttgt gttatatacg ttcttgactt ttgaacatac agctttatgg tgtgcttag
77041 gtatgtctca gacatacctg accattttat ggagatttga actcgcccta tacaacctaa
77101 attatctggg taatttagtt gctgtagatg atctgattaa gtttaagttt tgatagattc
77161 ttttatttga ttatctagtc tgcaattatc aggccttaaca ggataatttg attatctcct
77221 tcttccccct agcttcattg ttggtcttaa attagtatat attcaattta cataccatgg
77281 tagctgcgct cattggtagc agtaatttca cctctaacag tagagggttg tgetttgatc
77341 ctggcactta aacgtaataa cattaataga aaatggtagt gtctcatttc cttttcaaaa
77401 cactctctat gttcattact aactaatccc atctctgccg cttgagagag atgcaaatga
77461 atcagacgaa ccatagattg aaataccgca agtttagctt gagttacatc atgaacctga
77521 tcatagtcaa aggaagaatc aagagtacta agaattttgt tttgaatgta gttcccatat
77581 tttaaatata tatctctttt ctgaagatgt tttgtcctga atggaaactt aaaacatatt
77641 gccttatttc cctttgccct cattagtggg aatgtaaagt ttccaattct cttgaaaatt
77701 aaaaaatcca atttcccttt tgaaatgcag taggcaacag tgtttatggg ttagggatat
77761 aggcactaag aggagcacag taaatgttct gctttccaac acatctcatg ttaatttcat
77821 tattgtgtaa ggacccctgg tacatgtgaa aaatacagta tagatccagt ttgaagacaa
77881 attgtctttt aaaaggggta aatattcttg agtaactagg tttttgctg tttgctttag
77941 aacttttatt cattcttatt acaaaaagcaa tacctgccc a ttgtagaaaa gattaaagt
78001 agataagcaa aaaataaaat aaaaagaaaa gaggaattt aaaacttata tttatgcaac
78061 ccggggatag cttctattaa cattaacatg ttgttgatt gtctttcatt tcaaatattt
78121 ttctatgcaa aaatatattt caaatggaat tacgttatac atatagtttt agaattcctt

```


FIGURE 3 (continued)

78181 tttcttaatg tatcatgaac atctttttcac atctgtaagt attcagctac attttaaaaa
 78241 taggtagtat tctgcttttt ggaagaatca aaatgtattt agccagggtt gtaatataga
 78301 acccttaagt tgttttcggg tttgatattg taaatattaa tttattgaac aagtgcaggt
 78361 gtcacaggat gggttgggat gagtttaacc atccctcaa tctcagccaa gcccttctct
 78421 ttttttttgc taaggacagt taatgttttc atagcaaaat gctatgcaa cagagctcag
 78481 gtttacctct ctccaatta gattttcacc taattctttc cttaaataaa attctagaat
 78541 taccactagt gtctaataat ctgttaccta aatcattttac catgttatcc attatttccc
 78601 taggataaat tcccataagc agaattgcta gatcaaggag cacatatgtt ttagggcctt
 78661 tgatactggt gtttaaactg tcttcaaaat gtttatacta gtttaaagt tacacagtgg
 78721 tacagagagt gccattttcc ctgaaccctc acaaacagtt gactactgtt gtatttacta
 78781 attttccaat tcatgaacat ttattttatat acttaatggt cattgtaatt ctttttatgt
 78841 ttaggttaa atcatattcc ttgccatttt ttctattaag atgcttatca ttttattgat
 78901 aaattgcctt ttttatcaa ttgtcaatat taccatttta ataaccagat tattatatcc
 78961 ttgtaagaac tttttatcaa ttgtcaatat taccatttta ataaccagat tattatatcc
 79021 aagagacagc ttaggtgct gaagtttctg cagcctatgg aattgttcaa atgatatgtg
 79081 cgtctgctaa tagatatact aaataacttc cactgagtat taccctaaatt tggcctttgc
 79141 cttttaaatg actctgggca tactctctca tagctttcat aaatattaca aagtttgtga
 79201 gagaaagtac tgcttgcttg atcaaaagca acttatacaa atacaatgc agattctgat
 79261 tttttagtag caattctatc agtcaagaga cagaaaccac atcattttgt tttgttttgt
 79321 tttcacattg ggattttttt aaacagagaa atgttggaga attgtaaagg cacaaggga
 79381 acacttaggt ctcaaaagg tggcaaatca ctttctacca gcacatctac caccatagcc
 79441 atgtttttctg ctgcattttc tgtcatttgt cactgaccag gaaaacacaa ttggctctgg
 79501 tcttgagggt gcctatggga ctccgtgaca gaaattcact gcttggggac atcagtaaag
 79561 caatggcctt gatgctttca ccagtcccc ttgtacttta agcctttagt gcttttctg
 79621 gtgggcattt tcagagctac ttgttcagcc aaaccaatt atgtgtttgc aaattcagtc
 79681 ctctctcttg agggctacac ccagtgatga atattgtgct gtatttcttc tggctcaaat
 79741 gtccagccac tataaaagt acaggggaaga actggtgagt ttggcaatac ggaaaaggga
 79801 ttacaagatt agtttacatt actttgtagc ttactgtcaa attgcacccc ccccaacaa
 79861 agaaacctg ttttcccaa aattgaatct ttcacttata ccccttcttc tcccttctc
 79921 ccagtctttg accttctccc atcttccagt cagaggctaa acccaggcgc tctgctgcca
 79981 gtccgtgacag acccgcctt gaatgatctc tatgtgattt ccaccttcaa gctgcagact
 80041 aaaagttcag ccaccatctt cggctcttca tcttcaactg acaacagtaa atattttgaa
 80101 tttactgtga tgggacgctt aaacaaagggt aagcaaattt gctgaaatta ttttcttaaa
 80161 aatctccttt ttctattcca ggattagggg tatactgtct ttgagatggt ttccttgtag
 80221 aatttatatt tcaactacta gtcatttcag tttttaatac tgaattcttc ttactgtaca
 80281 tttacctata ttggcggggg ggtggggggc gggtcaggaa gaaagtgaca ttgggagaaa
 80341 aaaagaattg ctgtgaccaa gatgcttttt gacattgtct catcctgatg ttattctgaa
 80401 tccagtcttg gaacagagag gacaaggagc aattcagcca ttattctagg cagctcaggc
 80461 tgctataaca aaataccata gactttgtgg cttaaacaa atcctcagct tccattttgt gttgctataa
 80521 tctagacagt ggtaagtcta agatcatggt gccatctcag ttatttagct cacagtcttg
 80581 aagactaccg gagactgggt aatttataaa gaaaagagat ttatttagct cacagtcttg
 80641 caggctggaa gttcaagggc atggccctgg cttctgacaa ggactttctt gtgtcacaac
 80701 gtggtggaga aggtcaaaga gggagcagac acatgggaag aggggaaaac ctgaggggca
 80761 cgtagctttt ataataacc actctctcaa gaactaatte attccttga gaactaatcc
 80821 attttcacia gagctgaaac tcaactgtctc gagaacagca ccaagccatt catgagagat
 80881 ccaatcccat aattcatatg cctccacaa ggcctacct cccaacaccg ccacattggg
 80941 gaccaaattt cagcacgagt tttgacaggg acagacatac catatccaaa ccataccacc
 81001 cgcagatttg gctccttgta agggcccagt tcttgattg tagatggcca tctttttatt
 81061 gtgtcctcac atgatgaaga cagacagcaa gctctcttgt gtctctctt ataaagtcac
 81121 tattcccatc atgagggcca caccctcagg acctcatcta aacctaatca tctccaaaa
 81181 gccccacctc caaataccat cacactggag attaggagtt cagtatatga atttgatggg
 81241 gcgggaggaa ggggacagat acaaacattc agcccatgac agccaccca tactattctt

FIGURE 3 (continued)

81301 atgttccctt tgaagccagt gctcagtaga cctagctcct aactccttaa gcacctacct
81361 ggccgtgatg gaaagaatat acctcaacca gtagaacagg atgaataggg ctcttttctc
81421 cctgtgctg ccaatttaca caggcctgtc actgggttga tccctctgct gtcatttgtt
81481 ttgttgccgt agtgagttac tataagcact gagaagttag tcccaaagaa aatgggtcact
81541 atttttcatt gccttctcct ccactccttc ccggggggac aacacctgtt cctgtttatt
81601 aaggaatgtg acagatgcgt gttcctgctg cttcatgcat ttaataaaat aggagggctg
81661 gttcttctgg ctgggtttta tgtttatttc agtttgcttt acaaagtggg cacttcttag
81721 tgcttcaaac tctctcttag attatatttg tgattgtaca cttaaactctg caggcattag
81781 gaaatgaaag aagtttctaa ttcttaactt tcataggact ctaaagttaa aagtataaat
81841 gaatgggact ttaacccctt cttttctgtc agattccaac atgcttcttg cctgcttcca
81901 cgctactccc aagtctgctt tctctgtatg tgcctcatag cctgtcaggg gccttgagga
81961 ggtgtcagat aataaagtga gtctgaggac atggccagca gatgggtcaa cgttctctgt
82021 ccccttttcc ccatcttcag ccctaattgag gggggattct gcccatgtct tgacctgaa
82081 tcaaacagcc ccattttgcc tagcatctgc tgaaggaact gctcatcttc tgacaacca
82141 gctactcagt ttgtgatcgt aaaaatcacc gttcttcac tgtggatcag cagcttctcc
82201 taacctgtct atttcagagg cattgcaaag atttttcttt cgggttcac agcttaatgg
82261 ccagaagttc ctctgcagag taaaaaactg ctccaagctt ttgcccac tgccctcac
82321 cctctatttc taaattggcc agtatgtgtg agccattgt ggaaagtctg ttgctgggaa
82381 acacaaggaa gcaacttccc ctgaacggat cctttcagtt tgtatagaca agagtaacac
82441 tggatttaat gggcagtagg tagagggtaa ggggatcgtt agtatgtttc ctctgaagaa
82501 tcaccagtaa tatgagtcag ctgtaaatca cagttgatca aatattttag gggctgtaat
82561 cccagcactt tgggaggctg aggcaggcag atcacctgag gtcaggagtt cgagaacagc
82621 atggccaaca tggagaaacc ccactctctac taaaaataca aaaattagcc aggcattggc
82681 gtatgtgctt atagtcacag ctactcggga ggctgaggca ggagaatcac ttgaaccag
82741 gaggcagagg ttgcagttag ctgagattgt gccgtgcac tccacacttc agcctgggtg
82801 acagagcgag actctgtctc aaaagaaaaa aaaaattaga ggaaaagatg aaagggttga
82861 ttgaaagaac tgaaagatga acatctcctt accctccaac ctattaggaa agataaattg
82921 ttcttagaaa ctgtgggggc agaaggagtc ctggaagaat ctagaaatga gaattctcat
82981 aaggcaaaga gggatttatg ctgttattag agcttgaaga gttgaagaat gacacagaga
83041 agttgtttca ctggagcagt cggaaaaaat acgaagattt gccagcactg gtgaatataa
83101 aagtttcagg aaagagaagt ccattctgac tggaacaata aaagaagtc actgggtcca
83161 tcagatccaa ggaaaagaca gagcctgtgg ttgagactcc ccactgcagt gttcagtggt
83221 ggccatgctg acttgacata attctcccca caacctcca gatctctctt ttgctgatt
83281 ggtaggctcc agacagcatt catctggcca aggttcagct tctactgact taaaacacct
83341 tgcgtggaaa acggtgaaac agaagaaatc caagtggatc tctactgact taaaacacct
83401 gagtaggaaa taaaacacac ctttccctcc attaaagtcc aggactggga gatgaaggag
83461 ggtgactaca cagcatcaaa gagcagaatt tggcatctg ggcccatat gacctcctga
83521 aacaaattaa aatgtagcta atgaagactg caaagaaaga gtttgccact gagctctctg
83581 cttctactct caccctctcc aagtcagcct accccaggcc acctcattac tgttcacaaa
83641 cataatttgg atcaagatac atctgaacct tgagacctct agtggcccc ttccaaatt
83701 gaataatgta cccatgtctc agcaaggcat tgggggcttc cactctgcat ggccccagc
83761 agcctttcca gtttatccct cattccagcc tccatgcagc ctgagcttca ccaagatagg
83821 ctattgccat tcttggggc cgcacatgct gcctctcttc cactcttttg ttctgctgt
83881 ctgctccctc gacacatctc ctgcatcacc tcttgacacc caaatcctac acattcaaga
83941 cccatctcca gctccttctg atattctttc taatatgact ttgtacctct taaggaagac
84001 attcatctta gctcacttg tacttgaatt acttctaggt cttctctcca ttgtgtggg
84061 agctctcttg agacagggac tatacagccc ttatctttgc atctgctgca gcacctagca
84121 aggtgccttg tacatagaag tagttcatgg atagattgaa aagaataaat ggaggctgag
84181 aagagtagac ttgtttgtga aaaatgacat acaccattgt gaaattctgg gattccacaa
84241 tatctgacac atagtaggta ataaaaaaa aattatttat ttatttatga gacagagtct
84301 tactctgtca cccaggctgg agtgagctg ctatgatctg gctcactgca gcctctgcct
84361 cctaggttcg actgactctc ctgctcagc ctcccagta gctggaacta catgtgcga

FIGURE 3 (continued)

84421	ccactacgcc	cagctaattt	ttctattttt	ttagtagaga	tggggttttg	ccatattggc
84481	caggctgggc	togaactcct	ggcctcaagt	gatcctcctg	tctcggcctc	ctaaattgct
84541	gggcttacag	gtctgagcca	ccacactcag	ccaaaaaaag	atTTTTTTTT	ttaatgaata
84601	aatattgaag	ggcttttgga	ataggatgta	agaggatata	ggtagtattt	ctggtagaag
84661	tgatctgcca	ggttatgagt	aatacagcct	ttaaactctg	atagaaataa	gcacctgca
84721	gaaaccacct	ggctggatag	aagatatggc	tgatgctctt	ctagtatctg	gcgtaaagac
84781	aactttccag	tttgatcct	gagtttgagt	cacaaactgc	atcaccatga	atacatctct
84841	gaatctctct	tagcccttgt	tgattgccta	taaaatgggg	ataataatag	ctacctcaca
84901	ggctggttgc	aagaactgaa	ttatataagg	tataataact	ttcttcagac	tatgaggctt
84961	aataaaattt	tcatactctt	aaacagtatt	agagacagat	ttccactatt	taggcaactg
85021	ttttctaattg	atgatggttt	gggtgaactct	tggcttgccct	tgatgacaat	ttcacctttc
85081	agaaaaagaa	acacaagaac	tgcttcttta	gtcttagtat	gattgtctca	gaacaacttg
85141	gtgctgtgaa	gtgaaggaaa	cccaaagtgt	ttgctgtaat	gaccagagag	tgctcagtga
85201	actccttagc	ctaaggatag	gacatgtcaa	atagttcaga	gtagtggttc	tgtagcttgc
85261	aagctaaaga	gaaatataga	ttaagagaga	tggtagagct	taaaaaataa	aattatagac
85321	acaataataa	gtggaaaaaa	tgagggggcct	caaacattaa	taataatatt	tatggagtct
85381	tttttttttt	tttttgagac	ggagttttgc	tcttggttgc	caggttggag	tgcaatggcg
85441	cgatcttggc	tcactgcaac	ctccgcctcc	cgggttcaag	tgattctcct	gcctcagcct
85501	cccaattagc	tgggattata	ggcatgcgcc	accagaccca	gctaattttt	gtatttttag
85561	tagagacagg	gtttctccat	gttggtcagg	ctgatctcaa	actcgcgacc	tcagatgatc
85621	tgccctgttc	ggcctcccaa	agtgtctggg	ttacagccgt	gagcaaccat	ccccggccct
85681	atggagtctt	tttaatgtac	caggactgtg	ttaaaagctc	aaagcctatt	ttccctttta
85741	actttcacaa	tattcctatg	acatgccctt	gaattagctt	aatttttaaag	tggtcatgtg
85801	cagaagatgg	aaagaatttt	aaaatttgac	acaaaaactat	aataattagg	acaaaaaagc
85861	taaaacctaa	ttgagtcaaa	gttggtgatt	cacacataag	ataataaaat	ggatgttttt
85921	agccatgttc	agaataagat	atggaagata	tggaagaaat	aagcctacct	cctggaatag
85981	gtaatgggag	attaacaggt	gatagaggta	agtcatagat	ggctcttttg	tttctgtctt
86041	acccatcaag	gggagtgttc	ttcaaattgt	caagaacagt	taaaagaaaa	caaaaatcca
86101	agctagatga	ggagatagca	gaaaaacgcc	cactctcttt	agttagatta	actattcagg
86161	agcagatgaa	ttacacattg	ggatatttag	tgaagaaagt	catagtggag	ccactgttag
86221	ttcatttaga	aatcatggag	aacagaaagg	tcctaaaaga	caggacaggc	aaatgtttcc
86281	atttttataa	agaagggaag	ggtggattct	gaaaaccaca	ggctactgaa	atthagga
86341	gagctccaga	gggttatatg	attattcatg	tattttggga	ttgcccagaa	aagaaatctg
86401	ggattttttc	taagacaaag	tggatttact	aagaataaat	catgccaaac	tttttttttt
86461	cagtaaagt	tcaaagctga	tagattaaaa	aaacatgctg	tgagcataat	gtatctgact
86521	tcagaaaaga	attggatgaa	gtcgttatt	atacctttct	aaataatata	aaaaagaacg
86581	agctaggtaa	tagtaccgct	aggggttgct	aagtcactgt	atagcaaatt	atctagtgg
86641	ttttgacagg	gctctgtctt	gggtattgaa	ctgtccaaca	tgtagtgac	ttgagcaaag
86701	acagcatttt	atcgtgtttg	caattcaaag	ctagaaaaca	gttgaacatg	ttggatacta
86761	tcattcatat	ttacaaaagtc	ctaccagata	atacaatggg	ccaaaatcaa	tcagatgaaa
86821	tttaacaaga	ataaatgtaa	agctatcaac	taggagtga	aagcaaattg	cagaagtcca
86881	ggatgtgaga	catctgtcct	aagagttctc	taatcaaca	caaatectaa	tcagtgttga
86941	ggatagtgcc	tgacacataa	tggatactca	aaaatatttg	cogaatgaat	gaatgaacag
87001	atactgtgat	gcaactgttt	ataaaaagct	ccttacattt	taggtttcat	tagtgcatac
87061	atatggccag	gttaaagaag	ctaagagtcc	cactgtactc	tttaattgtcc	aggccacatc
87121	taatactgtg	tctagtctctg	gacacatttc	acaaggacac	tgtcaagtca	aagattacct
87181	tgaaaagagt	caccaaaga	gcacctatct	ggaccccggt	ttttgtttt	gtttggtttt
87241	gttttttgtt	ttttgttttc	tgttttttgt	ttttaccaca	tttaagtaga	aaagttaaag
87301	gaactagaga	aatgaagaag	ccagacagaa	gacatgaaaa	atatgaaaat	tgctttacaa
87361	tatttgaaaa	aagggttagg	tgccgtggct	catgcctgta	atcccagcac	tttgggagtc
87421	tgaggcagga	gtatcacttg	agcccacaca	ttcaagacca	gtctgggtaa	aaaattaaga
87481	atTTTTTTTT	tttttttttg	agacagagtc	tcacctgtt	gcccaggctg	gagtgcgaatg

FIGURE 3 (continued)

87541	gcgcgctctc	agctcactgc	aacttcacc	tccaggttc	aagcgattct	cctgcctcag
87601	cctcctgagt	agctggggtt	acaggcaggc	gccaccacac	ccgcctaatt	ttttttgttg
87661	ttgtcgttat	ccttagtaga	gatgggggtt	caccatgttg	gccaggctgg	tctcaaactc
87721	ctgaccacgt	gatccaccca	cctcggcctc	ccaaagtgct	gggattacag	gcatgagcca
87781	ccgcacccag	ccaaaaatac	atttttttaa	aaattagcct	ggctcgctgg	tacatgcctg
87841	tagttccagc	tactcaggag	gctgtggcag	gaggatcact	tgagcccagg	agtctgaggc
87901	agcagtgage	cgtgatcatg	ccactgcact	ccagcctggg	caacagggca	agctcttgtt
87961	tcaaaaaaat	aaaaataatt	aaaaataatt	tttaaataat	atttgaaaaa	tgtcatttgg
88021	aatgaagatc	agactaaatc	tctgtctagc	tctgaagagt	aaaattagga	tccatttgga
88081	gaagacagag	gaaacagata	ttggctctgt	attaggaaaa	tcttgagag	tgatccaaaa
88141	gtgaaatgga	cttctctgca	aagtaatgag	ttccttggtt	ctggaaatgt	gctggtagag
88201	gctgcacttt	tattgaagga	atttgtgaag	tgagatatta	agctggatga	cttataatgc
88261	taatatTTTT	tcattgtacc	aaggctagag	aagtttcata	ggcacttaag	aaattgcttt
88321	gcacctcttt	cctgtaacat	gaccttgggc	ttctgtgcac	actcactgct	ttgttgtcta
88381	ctagatagtt	gcatactatg	atgaatctca	tactttttca	aaacacaaa	tcctctgcag
88441	atgttttagc	taattgctgt	gtttcctttc	actagataga	tgtgtgtgtg	tgtgtgtgtg
88501	tgtgtgtgtg	tgttactctg	tatactttac	atttattcaa	attgccataa	gaaaactttg
88561	aaacagactg	catttatcac	agctaggagt	caccagaggt	actttcagaa	aaagcaattt
88621	gctgatttac	cttttgtatg	tatttccaaa	gcactaaagt	tacaaagacc	tagtgtatag
88681	ggcatgaaga	tgaataagca	aaggcaaaaca	agaatatcca	tcacaagaga	cattaatgtc
88741	aaggaggcaa	tttttaaagt	tacaattatt	taaaaagaag	aggaaagatt	gacaatgatg
88801	gcttccatca	tatgttttaa	agtgcacaa	agcaaaagca	tttgccaaac	aaagcaaaaga
88861	gctccagact	acctttgtga	gtttgtctgc	tgcaggccag	gccactctgg	actcctttgc
88921	ccaagcagac	aaaatattat	catttccagt	tctttaaagc	tggcaccctg	cttcataact
88981	ttgacattca	acatatcata	atatttttga	ctaccaggtc	cactttttcaa	aaagcatctt
89041	ttgaaaattc	tttctgaaga	tagcaatatt	tcaaactctc	attgcctggg	cttgcttttt
89101	catctectgc	cagtcactga	aatcgatatt	aatcagactg	ggctatgtgg	ttcctgtgtc
89161	cggctgggtc	caagcatgga	aatgtagctc	ttggacagtg	ccataaaaac	aggcaatcct
89221	gagtagctgg	ggttacaggc	aggcgccacc	acgcccacct	aatttttttt	gttattgttg
89281	ttatccttag	tagagatggg	gtttcaccat	gttggccagg	ctggctctca	actcctgacc
89341	aaattgtcaa	ttacacaaa	atgccaaagt	tagagggaag	ggatttatat	aaccaacaaa
89401	gtgttccaca	ttttaaaaaa	gacataattg	tgagtaataa	aagtcagagt	ggacacactc
89461	tatttttatc	attttttttc	acttcccata	agtagttgta	gtggtgccct	cagatactat
89521	gggatgtggg	aaaatcagta	agatatagac	ttggcagcat	gaagggactt	aagggtgtgg
89581	gaagattagg	gccagtcctg	ggataaggag	ttgaaacatt	atttagaatc	cactagggag
89641	ttattgaagg	atttcatatt	cttgcttgct	ttgaggaggc	aataacgatc	agaacagtc
89701	tataagaagt	tcaatctctc	agtcacaaaa	gtccgtgcag	aaagagacct	aaagtaggaa
89761	ggggagtcag	gaatctaaca	gagcagccca	gaggtggagc	agagtcagag	acaccgtttg
89821	agatccgagc	acccactgac	tgacagcctt	cagttccaat	ccaatctgca	ctgcattctg
89881	ggtactaacc	ctgcacaata	accagctgca	attgccaaga	aaacctgtgc	agctgggtgg
89941	gagtgaatac	caaggatgtg	aactcaatgt	gctgcagctg	aagaaacaga	gttgtagctg
90001	gaaccgcccc	gtgggttcac	cttgccact	gcctacacag	aaccatttta	tcaagacagg
90061	ggaattgcaa	tggagaaagg	gtaattcacg	tagagctggc	tgtgtgggag	accagagttt
90121	tattattact	caaatacagc	tccccaagca	ttcagggatc	agagttttta	aagataat
90181	tgcaggtagg	ggcttgggaa	gtggggagtg	ctgattggtc	aggctggaaa	tgaatcata
90241	gtgggtcaaa	gttaggtttt	cttaacgtct	tctgttctct	gggtgtgatg	cagaaatgat
90301	tggggccacat	tactggtctg	gggtgtgtca	gctgatacat	ccagtgcagg	gtctgcaaaa
90361	tatctcaagc	actgatgtta	ggctttacaa	tagtgatgtt	cccccaattt	ggaggtat
90421	ggggagcaat	ttggggattg	ctcagactct	tggagccaga	ggctgcatga	cctctaaact
90481	gtaatttcta	atcctgtagc	taattttatta	gtcctgcaaa	ggcagactgg	tccccaggca
90541	agaagagggg	cttcgggaaa	gggctgttat	caattttgct	tcagagtcaa	agcatctact
90601	gaattccttc	ccaaagttag	ttcggcctgt	gcccgggaat	gaacaaggaa	agcttaagt

FIGURE 3 (continued)

90661 ttagaagcca gatagagtcg gttaggtctg atttctctca ctgtcataat ttcttgagtt
 90721 ataatttggc aaagacagtt tcataccag tgactgtttt cctgagtgct ttccagggtg
 90781 gtggccaggc agaggtgtgg tctgagtcggg aggtgggatg gttccagcct caggggcctg
 90841 gcttcttctt ccttctctga gggacaaaat ggtcatcttc ctctgctgt agtggtttcc
 90901 cctgcgtttt gttctctctg ctatgtgtgg atgtgttggg ataagatagg gcaagatgag
 90961 caccgggaaa gggggctggc aagaggaaag gaacctgtc tgttctcttc cccttcccag
 91021 tgatgctgcc tctggagaag gtgaggaaaa ctgcaccca acaggctgca ggctcctggg
 91081 gccagagctt tctgcttttt ccagactcca tatgactgat gtgaaaacgt tgagtttctt
 91141 gagcctgctt gccctctggg tagtctaact gctctgataa taaaataagt gtagaggcac
 91201 tgaagttaaag aatttgcaat aaaaaagaaa atgaaaaatg gaagccataa gagaaatgag
 91261 tattggatca agtgtgaaga atgggaaatg tcaaggcact tgataatttt tctgctaaca
 91321 aacagacatt gtgaagggtg aagtttccat ggttttctt ccctgcgttt tcttttgcta
 91381 ttgtcatgag atctaggggc atgagggatt tgtcatttga gtgttacatt gcaacaaaaa
 91441 gcaaggcaga agtacagaat ccacttaaat gagagtatga acacaatagg aggttttgct
 91501 acctggaatt agatgttgaa ttgctgctct ctaaacctta ttttctatat aaaaagcttt
 91561 aaatacaatc atttaattat tcatttaaag tttatattaa caacatttag tgtgcacctg
 91621 ctatatgtaa agtatcccac taggtactat tcatcaaatt aaagccagct attatgatat
 91681 gaaaataaac catggcccac ataccctgtg aagccctgtt aaaagcaggc aacatgcccc
 91741 agaaaatatg tttcctttga atttcacaga aatcttagtt tgaggaagaa aatcaagag
 91801 tttttgttat aagccactat gtgtatgctc tgaaacagtt aatgtagaga acagaggtag
 91861 tggccataac tgaaataagg agatagtgag tgagtgtgtg tgtgacctaa ttcaagtttg
 91921 gtggtccaag tggatttttt cttggcctgt aaaaactaca ggtatttgca aaactgttct
 91981 aatatagtaat gtaatagaag ttttttaaaa attgagttag tgcataatgt tggactcaat
 92041 ttctccctct tttgggtact atatatggtt ctaatttcca gctgtgcagt tactattgta
 92101 aattctcaac attaaaaaaa ttttcagata caaattattt ttattgatac atacttttta
 92161 catattttaag gggtagatgt gaattctcaa caattaatat taaataaaag gagaagaatt
 92221 ctgttctatc ccagattaga aataccttag aatttctatt tgtgtctatt tccctccatt
 92281 ccattatttt cttctctctc ataccacatt tatatacgtc ttaccattta tttatattta
 92341 ttttaactct tacttcagga aacttagtat tgttctggaa tcagaaagcc cttctagcta
 92401 gtctgtcttg ccagggtctt cagattcttc tccctcaaga agcaagtggg ggtgaccacg
 92461 tgcacataag agatttcccg tctgactcct cccaccatct gtgtagggtca cagaacctca
 92521 cgccaactgg ctctcttcag actgtgggtca actggaaaaat cgagtcagat ttcagaaggg
 92581 tgggaaaaatg aacctagaaa gtctaagtgt gagaaagcct taaaatatat cttcatgtt
 92641 ccacaatagt gattattatc tttggcgata ctgcaacata aatagggtatt cttggctagt
 92701 tcatctctgg cggcaccatc ttggcattta cactctacag aaaaggtagc tgaggagaaa
 92761 gatgggtcaa gttacttgcc acagatcaca cagattaaca gcagcacagt ctgggtgtat
 92821 atgtgtaata tatatctttt tattattttt atatacaagt aatgggtgtt tcttgtagaa
 92881 aagttaaaac aatgaagatg agcaggaaga aaaaaatacc atccaaacac ccagcaaata
 92941 accatactaa tgtagacata ttttcttcta atcttctagg tatgtatgta tacatatatg
 93001 tacatatata tacacatgca cacttttttc taaaccataa ttgacctata acctcctttt
 93061 ttttttactt aacaaaatac tgggaatgtc tttttgtgtt tttaatattc agctattcca
 93121 tagtattcca ttttataatt atactgtaat ttaagtagcc agccctctcc ttttggacat
 93181 atatgttgtg ccaagtgttg attacaataa gtatttctga aatgaacatt ctacccata
 93241 catcttggtg ctgctttttt ttttttttct ataaccagg acagtgtctga agtgcttctt
 93301 ttctttaatt tctcagttt tagttcctag aagtggaat gctgggctgt tgggtttaca
 93361 catgtttaag gttctgatgc atgtgactaa attaccctcc agaaaagttc tgctttaagt
 93421 tctacttaac gctttcccac cctgggacag ctgaagactg gccagagctt tgcagctgca
 93481 atgatgtgtt taccacctcc cttatccagc aacatttgca attagcctcc gacctgttct
 93541 ctgggattgt ttccggtgaa aattagccat gcctggctaa ttttgtatt tttagtagag
 93601 acagggtttc acctatttgg tcaggctggt cttgaactcc tgacctcgtg atctgccac
 93661 ctgggctctc caaagtgtg ggtttgggaa tggtagctgt ggatgcacct agaggtgtgt
 93721 ttagacacta gctgaaatca ctttggctct tctagcaaac ctagccaat gggctccact

FIGURE 3 (continued)

93781 cacáaagggt cagcttccaa gagcagattt tagctcaggg cctcttatgt tcaggacaat
 93841 aatggagtaa aaaaacaagg ctgaaaacca gaagatatgt gggcttaagc agatatgtga
 93901 atagctaccc acataggaaa aacaaaacaa aacaaaacaa aaacaaaaac agaaaaataag
 93961 gtgggagtc tttttttaca accatggata ccttttcttt ttttttcttt tttttttttt
 94021 ttgagacagg atcgctcttt tgcccaggct ggagtgcagt gggtcgatca tggctcactg
 94081 cagcctcaat cccccaggct caagcaatcc tccacctcag tgtoccaaagt agctgggact
 94141 acaagtatgt gccaccacac ctggcctttt tttttttttt ttttttgaaa tggagtcttg
 94201 ctctgtcacc caggctggag tgcagtgggt tgatcttggc tcaactgcaac ctccacctcc
 94261 caggttcaag caattctcct gcctcagcct cctgagtagc tgggactatg ggcgaacacc
 94321 accatgcctg gctaattttt gtattttttac tagagacggg gtttcaccat attggtcagg
 94381 ctggtcttga actcctgacc tcatgatctg cccacctcag cctcccaaag tgctgggatt
 94441 acaggcgtga gccactgccc ccagcctggc caattttttt aaatttactt tttgtagaga
 94501 tgaggtctca ctatgttgcc taggttgatt tcaaaactct gaactcaagc gattctccca
 94561 cctcggcctc ccaaagtgcct cggattacag gcataagcct ctgtgccag ccaatacctc
 94621 ttattatcta actgagcatt gttaaattca gggatgggtt gctgagggac gatatgacag
 94681 attacactcg atttgatgtg tgctgactaa ggcctgtgca tgcctagcat tgctttagtc
 94741 atggaatgaa tcacactcag gttcagattc tagtctgccc acttctctatg tccctgagca
 94801 agtgccttca tttatctgag actcactttc ctgtgccata gttattccaa ttgcatttgg
 94861 ttgcagttag tagaaattaa gtatttaggc tgggcacagt ggctcacacc tgtaatccca
 94921 gcactttggg aggcgagggc aggtggatcg cttgagctcg ggatttcgag accagcctgg
 94981 gcaacatggc aaaaccctgt ctctacaaaa aatatataaa ttagctgggt gtgggtggctc
 95041 acacctgtgg tcccaactac ttaggaggct aagacagaag gatgacttga gcctaggagg
 95101 cagaggttgc agtgagctga gatcgtccca ctgcaactgca gcctggggga cagagtgaga
 95161 tctgtcttt aaaaaaaaaa aaaagggaag aaatcaagta tttaaagcac ctaaggacag
 95221 cccccagccc catggtagtg ctcagcaagt gtttggtgaa tgaatggatt catgctctac
 95281 gcttatatag agtttacttt gctttcagat tgggttctgc ttgctcattg tacttatcac
 95341 tatatgagaa ttgtattgtt tattttcaaa tttgccacat attgtctgtt tctccatcaa
 95401 cacaaaacat tctcaggaga agagttgggt cccagtgcct gaaaacagtg cctagcacac
 95461 agaagatggg gaatcaatat ttgtgggtat ttctcactca cattccgtcc agcaacccag
 95521 tcttgttacc aggaggctgt tcagcacagg acacttatca caccatttgg tgacctcca
 95581 ctccccctc tgccacttat cacaccattg gttgacctgt gcttgcttcc agccatcctc
 95641 cgttacctga agaacgatgg gaaggtgcat ttggtgggtt tcaacaacct gcagctggca
 95701 gacggaaggc ggcacaggat cctcctgagg ctgagcaatt tgcagcgagg ggcgggctcc
 95761 ctagagctct acctggactg catccagggt gattccgttc acaatctccc cagggccttt
 95821 gctggccccc cccagaaacc tgagaccatt gaattgagga ctttccagag gaagccacag
 95881 gtaggaaccc acaaaccatt ctctgaagt gaaaaatgag ctgccagtgc ctagggagtg
 95941 cagaggagcg tgctgagaaa ttctgtctgc aggtcagtgg gtctaattgcc gcttgccat
 96001 cagaatcacc tgcggagcct gaaaagcaag tgataggggg ctgccctag gacaaactga
 96061 atccgaatct gtcgggtggg gcctagcata tttttatgct aggggcatca gcatattttt
 96121 aaaataccaa ttctaattgt atgcccgaat tgagagcttg tgctttcaat gataagtaga
 96181 gactctggat acaattgtaa cgttggaaa gaggggcaaa agtaaaaaata actacctcag
 96241 ggtgatgaca ttatctatct tcaattttct ataataaaaa taaaaaagaa tgattagaaa
 96301 ctgccaagct ttcataacag cattttcaca ggtcttgta gaacatccac taacaaaagg
 96361 gagcttagct tagctgcatt tggctttaag ataccatcac ctctgtcttc tgttttactc
 96421 caggttgatg gtatttttat tattctgtca ttgcacctgc tgtagaaatt gccacatata
 96481 tttcttttag aattttgtgc taggcagtgc tttgttttct ataaagaact agtattcttt
 96541 gtcctttcca ataattgata actgggttaa gttcctgaat ttcattccgt atataagcca
 96601 atgtcaaate agtaactatg ttctctgta atgggtccata ttatttttgt ctgctacctc
 96661 tcaatcctca ctttccattt gtttaattcat tatattaata tatgcttttag ttacaagcta
 96721 ctctgagccc tttgtacaga gaagcagggt gtaagcaata atttccattg caagtaggaa
 96781 tgctgtgcag ttttagatag taatataaaa actatgaatc tgatcctaga agttttgccc
 96841 ttgaacaaca ggaagcattt ttaatcagaa attccaagaa agctaaaaatc cgaggttttt

FIGURE 3 (continued)

96901 ggggattttt gtttttcagt catatataga gagattttta atgtagattt acatatggaa
 96961 aaaaattaat agaaagatat gctaaactct ctttctgcat ccccatagta gcgcatgtaa
 97021 tcagaatgac agtcagaaat tgtgtcactg cttatttcag aaattagtgt tcaccaccaa
 97081 ataagtcaat ttctaaaagt caggactcac ccctgacaaa gtcatacagaa actgtactta
 97141 ctggaatttt ctcagaagct ctacctcctt agaccatggt agtgatcaca gtggctcagt
 97201 ctcataatca cctactcact cattcagtca gtcaacaaat gggcacattc taggcattag
 97261 tgctaccatg gtgggcaaaag ccagtcattt tcttgactct gcggagatta tagtctgatg
 97321 tccaatacaa tatgtgttaa atagcacatg ttgcctaaat cttagctaaa tcaaaaagca
 97381 gaattcctct gaaaatcctt agctgtgctc atttctaaaa taaggatgat gacttcactt
 97441 tggcagttaa cataaatgtt ttgttgata tagatataat aaaggatgatt gcaagcagca
 97501 ttcacaagat aaaagggcaa ggacattgac tttttgacta acaatgaata atatcaaccc
 97561 gtaatatataa aatatgatgc caactaccta atgatcatag aagatatcat ttattcattc
 97621 tcatatccca aagaagtcag aggctttgct agacccttga gccaaagacaa ccaaaaaata
 97681 atactgttta aaattggggg taacaccta tttattatta tctaaattcc ataaacaaat
 97741 tacagacaat tcttaagagg ctccctgccac aaaataactc ctttaccatg taggaaaaga
 97801 gcctttcggt ttctcagctg tcttggtgac aatgccagca ttttcttagg ctactggcta
 97861 cttacatatt cacttttagtc aaaaagatag ggctggcagg ctttaggaaa aaatgtgatc
 97921 ctacaaaatt atgtaagatg tcagagggtc caagtataca ggactacttg attatgaaaa
 97981 ttgctgtagt aggcaagcac attggctttt gaacagtgtc agcaatctgt ggtatgaatg
 98041 tgatttcttc caggacttct tggaagagct gaagctgggt gtgagaggct cactgttcca
 98101 ggtggccagc ctgcaagact gcttctctgca gcagagttag ccactggctg ccacaggcac
 98161 aggtgtgggc tcttggggcag tttgcatgcc ttcatacaaa caaactccaa agaccctgaa
 98221 taggtgggt cccatcacccg aaaagtggga ctgtcaacag agcagcccaa caaaacgtat
 98281 ctatgaaaat cagtctcttg aacaaaatcc agggcacaga atattttcat tatgtcttta
 98341 tttttatgat tcacatggaa ttttagactta gtcagtggca tcattatcat ttttttttt
 98401 agctgaatta aagaaattac cccaaattaa attcaaagat tctgggtttt tgaatcatct
 98461 tgctcaggatg atttctctgg gaataatttg gttttgagtc acttagaaat gaccatcact
 98521 ggctgaaaac tctttgcctt ttgctgttcc tacaggggac ttttaaccggc agttcttggg
 98581 tcaaatgaca caattaaacc aactcctggg agaggtgaag gaccttctga gacagcaggt
 98641 aacaagcggg acatatcatc agaaaagccc tegtcttctt agagcagctc cccacaagct
 98701 agtggagctg caggcctgcc caggcacggg ggcagcctct gagccagatc tccggggggc
 98761 cacgcagccc cgacagccag ggctctgctg gaagtctctt ggaaatgggg tccaagctcg
 98821 tgatgaacac accatggctc taagcagagc gggagccatc aagggtctgt aacgctactg
 98881 taagaagtgt tacagagagc caggtgcggg gcctcatgac tgtaatccca gcactttggg
 98941 aggtctgaggt gggcagatca cgaggtgagg agctcgagac cagcctgaac aacatggtga
 99001 aaccccgctc ctactaaaaa tacaaaaatt agccaggcat ggtggtgcat gcctataatc
 99061 ccagctactc aggaggctga ggcaggagaa ttgctggaac ccaggaggcg gaggttgtag
 99121 tgagctgaga tegtgccact gcactccagc ctgggcgaca gactgagact gtctcaaaaa
 99181 aaaaaaaaaa aaaagtgtta catagatagc tccacatgga ttctttcatt cctggatgat
 99241 atcaggcatt ccttttcaat ccttttttcc ccttctcatt tttaaagggt aaggaaacat
 99301 catttttgcg aaacaccata gctgaatgcc aggtctgcgg taagtgtctt tctagtaatg
 99361 ggctcgctcg agttggatga tgcaggctga tgaagggtt gcggtgaggc tgtgttgacc
 99421 gcagtttctg aaggtctacc acatagttgg aggggagggg ggaaaagttc aataggaac
 99481 caaattttgt tttgccttct gtatatcttc ctggcggtga atacgctgt ggatgattgt
 99541 ttttctctag gtctctcaa gtttcagtct ccgaccccaa gcacggtggt gccccggct
 99601 cccctgcac cgccaacacg cccacctcgt cggtgtgact ccaacccatg tttccgaggt
 99661 gtccaatgta ccgacagtag agatggcttc cagtgtgggc cctgccccga gggctacaca
 99721 ggaaacggga tcacctgtat tgatgttgat gaggtaaaag ttcacttaga ctgggagggg
 99781 atccctaagt atcctctca ccctgcagct tttggaaaaa gaagccaagc tgatgattaa
 99841 gggctgactt gggctgtcct ccaggctcca ttgaaaccac ttgcttggag accctgagac
 99901 aagggtggc ggaaggagac atgacccaag gttatggctg cgtttgcct ttttctctg
 99961 tgtttccaac tcttctactg gtccattggc tacagtgtg aggtttctgc tttacacgct

FIGURE 3 (continued)

100021	gaacatttgca	ttgggtatttt	ctcttaaata	gtctgtgcta	caatttttgtt	tttccccac
100081	ttttgcaaat	gtggaagggg	aggatttttc	taagggtata	tttcaggagt	caccgtggat
100141	ttcttcaggc	ttcctaaaat	aaaggagcag	aggggaatct	cacaccaaca	agggggaggc
100201	cctgtaacct	atgagtaact	aaacgtgccc	agggaggggc	ccagaggagg	cacatccagc
100261	aaataccagc	tatttgaccg	gctggcagag	ccccagaaga	gactgtttca	agaccctggt
100321	taggcaggcc	agcctagtgg	ctgaagcctg	caatctcaac	actttgggag	gctgaggcag
100381	gaggatcaca	tgagcccagg	agtttgagac	cagccccggc	aacaagacaa	aaccctatct
100441	ctacaaaaaa	tatgataatt	actggggcat	ggtggcatgt	gcctgtggtc	ccagctactc
100501	tggaagatga	agcaggagga	ttgcctgagg	caggagggtg	aggctgcagt	gagccatgat
100561	ggcaccactg	cactctagcc	tgggcacaac	cctgtctcaa	aaaaacaaac	aaaaaaaaac
100621	atggtttagc	aatcaccagt	ccagttgcaa	agcaatgttc	atagcaggta	gcaaggctgc
100681	caccaaagt	tgccctcaat	gtgcctttct	cctcccaccc	agcccaagga	aggctgaaag
100741	gagaagcgca	ggggagagat	gcaggtagat	aacttaggca	cactgactcc	ctggggctcc
100801	tgcaggccca	tggtaatgtt	agtaacactc	agctgattac	cttcgctagt	agtaagcaat
100861	taagacggtc	tctagtaatc	cctcaattgg	agaaacaact	gcatacattt	cactgaactg
100921	catctgggtt	ttatctgtga	ggtagaattt	tcctctttct	gaaagggcag	gaagtggtea
100981	tgttttttac	attagttgaa	gtggtttaaa	aaaaacaaaa	aacaatctcc	aagattccta
101041	gagccttgga	atagcatgga	cttgacagga	catggaggca	ggcacaggcc	ctgagggatt
101101	acatggtaat	gaagaggcac	cggccctggc	tttgccctct	cgaggtcttt	cgatttgagt
101161	agttgggttg	ctgatgcttt	tggaggcatc	taacagccag	ctaagtggtc	cagggacata
101221	gtccctttcac	agagattttg	aaattccatg	tcagaatatc	agggagctta	ttacattgag
101281	aggtaggctg	gttaatatca	aggacccttt	caacatgcat	gtgccattat	tctacagcac
101341	agcaaagcct	actaaaaagc	aacctcagat	tgtgtggtea	gggattcagt	gggtaactgg
101401	agttggaagc	ctttattttc	ttttattatt	ttttccacca	aaagatagtt	aaatgactaa
101461	acaagtatgt	gcaaatagat	gaagaaaagt	ttgagagtgt	tttctcgggt	tggctaaaga
101521	ctttgaaact	ttttgtctcc	agtgcataa	ccatccctgc	taccggggcg	tgcactgcat
101581	aaattttgtc	cctggcttca	gatgtgacgc	ctgcccagtg	ggcttcacag	ggcccatggt
101641	gcagggtggt	gggatcagtt	ttgccaaagc	aaacaagcag	gtaggctgaa	gtcatgggtt
101701	ctattcattt	ctcatcttaa	caaaacaact	gtgggtgggt	cccacctctt	tgggtataaac
101761	ctttacctcc	atgagcagtc	aaggccatgt	ggaatgtcat	gggtgcaaat	gagcaaat
101821	ggaagttttt	caaccatttc	tgagtattta	catttataaa	atctagaagg	gaggaagctt
101881	ttaagagggg	ataatagagt	atcactagaa	aaacagtaaa	tggggtaata	tggctattgg
101941	cataatttca	gtcttatttt	gttgatagct	gttgagcatt	ttgtcctgca	gaataagttg
102001	agaaccacgg	agacaaaagc	tttgaaaaat	taggtcactt	ttgtagagtc	attgttgcca
102061	atcgaagctg	tttcagagat	gaggggattt	taagagtaga	aataatcccc	caaggcaacc
102121	tccccctttt	cttatgtaag	ctataaattg	ccataaagca	cttgagtact	tcttgacagt
102181	ctccatttat	ttcccaatgc	tctactatat	tctggtcatt	atttaactga	ctgactgtga
102241	aattcttttt	gatgttttta	gcccttaaaa	atgggtgttc	tataaatata	ttttactacc
102301	ttagggaaat	tattagcttt	gaagaagggc	aggggtttat	tatttccctag	ctgcctatca
102361	aaggggttcta	gagggcatga	tttttttaag	ttattgttat	actttaagtt	ctaggggtaca
102421	tatgcacaac	gtgcagggtt	gttacatatg	tatacatgtg	ccatactggg	gtgctgcacc
102481	tgttaacttg	tcatttacat	taggtatatc	tcctaagtct	atccttcccc	cctcccccta
102541	ccccatgaca	ggccctgggt	tgtgacattc	cccacctgt	gtccaagtgt	tctcattggt
102601	caattcccaa	ctaagagtga	gaacatgcgg	tgtttgggtt	tctatccttg	cgatagtttg
102661	ctcagaatga	tgggtttctag	cttcattccat	gtccctacaa	aggacatgaa	ctcatccttt
102721	tttatggctg	cataatattc	catgggtgat	atgtgccaca	ttttcttaat	ccagtcctatc
102781	attgatggac	atttgggttg	gttccaagtc	tttgctattg	tgaatagtgc	cacaataaat
102841	atacgtgtcc	atgtgtcttt	atagcagcat	gatttataag	cctttgggta	tatgccacgt
102901	aatgggatgg	ctgggtcaaa	tcgtattttc	agttctagat	ccttgaggaa	tcgccacact
102961	gtcttccaca	atggctgaac	tagtttacag	tcccaccaac	agtgtaaaag	tgttcttatt
103021	tctccacatt	ctcttcagca	cctattgttt	cctgactttt	taatgatcgc	catttcaact
103081	ggtgtgagaa	ggcatctcat	tgtgggtttg	atttgcattt	ctctgatggc	cagtaatggg

FIGURE 3 (continued)

```

103141 gagcattttt tcatgtgtct gttggctgca taactgtctt gagaagtgtc tgttcatatc
103201 ctttggccac tttttgatgg ggttgtttga ttttttccct ataaatttgt ttaagttaag
103261 ttctttgtag attctggata ttagcccttt gtcagatgga tagattgtaa aaatgttctc
103321 ccattctgta ggttgccctgt tcaactctgat ggtagtttct tttgctgtgc agaagctctt
103381 gagtttaatt agatcccat tgtcaatttt ggcttttgtt gccattgctt taggtgtttt
103441 aatcatgaag tccttggagg gcatgatttt ttagactaga aaagggaggc cagctagaca
103501 tataggaatg ataagaagct gttaagagtc ctctaaagac aaaatctcta agaacaaacc
103561 aaggaaacat aaggtacttg gtgtaaggta gtaaggagca cttctcaata gatttccagt
103621 aacaaggcag acagaactga agtggaaggg agccaccttg ctaaatttaa cagcaaatgt
103681 tactgcatte caaagtcaaa gaaaataaaa ggaaatggcg cagtgtccag aaacaaagag
103741 aaaactcaaa gccagaactg tgactagagc tgatgccaca gcagatcctg ggaggtggga
103801 gttgggtcca ggtcttagta acagggacct ggcttttacc acctgtgtgg agtggatgca
103861 gcaatgtagt ctgggaactt tggaaaggcc taacaccctt gcataagtcc aggaccctca
103921 gagaaccacc ttatcaatta caaggagaca ggaaaccttt agtagcccta agaaacaaca
103981 aagaagctct ttagctttta tacatggttg acaaaaatga aaattgccta cagcaaatca
104041 aagcaccaca cttgtaccac atacagttat gagtccaaa tctgttatac atataatgca
104101 gaaacacaa ccaaaaaatt aaaataataa ccagccatga agaagtgaag gggcagggc
104161 tctgactcaa gtcaaaaggc caccactctg taaagacatg ccaaaattca gggccaattg
104221 atatgccaca ggcaaaattt gggctactga agatatgctt ataaacaaaa atggcagttt
104281 atataaagaa actcccata ggaacatga taaatgcaaa gtaaataata aaaggtaaag
104341 aaataaatac catacttaa gaatagggca atgccccaac tgggcaacat ggcaaatcc
104401 catccctaca aaaaatacac acaaaaaaat tagccgggtg tgatggtgca tgctgtggt
104461 cccagcaacc ttgggaggtt gaggtgggag gatcacctga gtctgggagg tcgaggctgc
104521 cgtgagctgt gattgtgcca ctgcaactca gctgagcga cagagcaaga cctgtctca
104581 acaacaacaa caaaaaata tagggcaatg tgagaaaaac agataagttt gtaaaacaga
104641 caaataaaac ttttatcaat ggaaaatcgt tgaacttaat agatgggcaa aacagattag
104701 acacagctta gcagggagtt catgggctag gaggtgaacc taaagaaatc atctagaatg
104761 cagcacagag aaataacgac atggagcata taaacaagag gttaggagtc aaaagaagat
104821 attacaaga aagttcgata tcatccaat tgtagttcca aagaaagact agaaagcagt
104881 cgggggaagc tgagaatggt ccagaattga aaaaagctaa gaatcctcat ttaggagaac
104941 tgcattgatt cccaagcaag attaaaaaaa aaaataaaac tttcctaacc taaaagggtg
105001 atggaacaga tgaattatac aagttgtctt ttctgaataa ctttcaatac catgaaagca
105061 attctcattt gcaattagat taagtacaaa ctggtacaaa tgcaagggag atggcacaaa
105121 taaccctcag attaccattc taccgaaat tccgcatctt cacttcacac aaagatagca
105181 aaacaaagga gatttatttg catttctatt taagcagcat gtctcgctaa actttctttg
105241 aacttttctg cactaggtct gcactgacat tgatgagtgt cgaaatggag cgtgcgttcc
105301 caactcgatc tgcgttaata ctttggttaag tatttctcac agctgttgtt atcaaagcag
105361 aaccggttat taaaacaagt gtatgtttat agatcatagc ttccaaacac acctagaaca
105421 tgtgggcata atatatattga ttggcagaat aaaggcaaaa gtttgtgctg aaaaagtgtt
105481 taatatgagt aattttaaaa gtaattttta tgtaagaata attttataag tgccaagttc
105541 tttattttct atcaaagttg caatattagg ctattagata actattttatt gagtaaataa
105601 ttattactcc tgtattttta aattgtgaag agcttggtag tttatattaa tagttcagta
105661 ttttactggt gactacacaa tcccaaatg gcattattta ttttcataaa actttcaatc
105721 atggggtcag gagatcgaga ccactctggc taacatggtt aaaccccgtc tctactaaaa
105781 atagaaaaca aaattagccg ggcttggttg cgggtgcctg tagtccagc tactctggag
105841 gctgaagcag gagaatgaca tgaaccggc aggcggagct tgcagtgagc cgagatcgca
105901 ccaactgcact ccagcctggg cgacagagca agactccctc tcaaaaaaaaa aaaaaaaaaa
105961 aaacttttca aaacttttca ttgtattaaa ttaaagtgtc tagcacttag ggatgcctat
106021 aacttaagta ttcagatatg ggttttattt ctgaaagttc ctgtcaaact gtgtccaaga
106081 tgagagatgt accagagttg actatcaaga aaagaactac tgattacgtg tatgactatt
106141 tgaaagttat ccagcctcta ggttccttgt ttccttgtaa gtaaaaacac tttacattta
106201 tcaagtcact tattttaatc ctcaacaaca cctcataaac agggattatt attatcccca

```

103141 103201 103261 103321 103381 103441 103501 103561 103621 103681 103741 103801 103861 103921 103981 104041 104101 104161 104221 104281 104341 104401 104461 104521 104581 104641 104701 104761 104821 104881 104941 105001 105061 105121 105181 105241 105301 105361 105421 105481 105541 105601 105661 105721 105781 105841 105901 105961 106021 106081 106141 106201

FIGURE 3 (continued)

106261 ttttacaatt gaagaaactg agggacagaa atattacatc attaatgcca ggcattggtg
 106321 agcatgccta tagtcccagc tcttcaggag gctgaggccg aaggatcatt tgggtacaag
 106381 agtagtttga ggctacagtg agctgtgacg gccactgcac tctaacctgg gtgacagagg
 106441 gagacctgt ctccaaaaag aaaaaaaga aatgttacgt atttagacta aggtcacaca
 106501 tcttccaggt tggctacaga gcctgagttc ttctccgcaa tgctatattg cttaggaata
 106561 gatgggggatt tattgcttct cagcttttac caggacaaag tagtctgcaa atagatttgc
 106621 gagatcttgg tgtaaaggta ataactgagc cacctagaga gaaggaaagt agacagtaaa
 106681 tagaactcca ggaaacccca aaaacgaagg actaggccaa ggaaaaagag cagaagccag
 106741 aaaaaggagc gaactgatag cacagccagg gaggtgaaa gatcgagaca agtcattgga
 106801 aagcatgcat tggatttggc aactaagagg ttgtgagtga cttaaatcat taaacaatat
 106861 atatacttca aatggatgtc ttttacgacc tgtaaatgtt atgccaataa aactgcataa
 106921 gatgaaaaag atctaagtga cagcatggtg actgtagtta ataatactat attatatata
 106981 tgaaatctgc taagagagca gatcttaagt gttctcactg aaaaagaaaa aaaggaaggt
 107041 aactatgtca gttgatggat gtgttactta actgactgtg gtaatcattt cacaatgtat
 107101 acgtatatca catcatcaca ctgcacactt taaatatatt cagttttgtc aattatacct
 107161 caataaagat gaaaatttta attttcattt tttaaacata ttgtataata tttattacat
 107221 atatagtgtg cagtgtgata atatatatta tatatataaa agctaaaaaa acctggcccc
 107281 tgaagtgtca ttgcagcgga gctgacagct catttgtcag tttctcagcc tacctcatca
 107341 gaaattctca atgcaggcca ccagcatttc tctgtgcacc cattcctttg tcattccatt
 107401 gtaaaagagc caaaggaaca gcaataagaa aaattaactt gctttttaag cagatcatct
 107461 cctgtccccc agagtaaaact tctcacacca cctcccagga cttcactgga acttttgacc
 107521 tgtcccttat gccctccacg gtggcgcggt caactcagtg tcattgggtc acagtcacgc
 107581 cttcttctct cacttctatt cttcttttgt ctgagtggcc ggacgcagcc tccagtctga
 107641 tgggtgttttc atcaacatc acatgatctt acatgtaagc aaagaagaag gcatggatct
 107701 gatgcctgat tcttgccagc aatgagtacc tgtgaaaata tacacaataa ctgtaccttt
 107761 gctcaaactg tacctttgcc cacagctttc agctcatcac ctgatctttg ttccttgccag
 107821 ggatcttacc gctgtgggccc ttgtaaagcg gggatatactg gtgatcagat aaggggatgc
 107881 aaagcggaaa gaaactgcag aaaccacagag ctgaaccctt gcagtgtgaa tgcccagtg
 107941 attgaagaga ggcaggggga tgtgacatgt gtggtaagtt gttttttgac ttcctctatc
 108001 atttttcttc ttccattttt aacaccaact ctctccagtt tctatgtgct tcagggtaaa
 108061 agtactccaa aatgaaagca ttgcaattaa atgagcatgg agtgtaatag gaacagggtc
 108121 caccgagttt gtggggagca gcctgacatc catctaacca tcagctgcct tttctctccc
 108181 tcttggtctg ggggcaaccc tgtccacttg ggtacctgga tgccagagcc tccgggtgaag
 108241 ccccgactcc caagcacctt ctatggaaag gccagaagc cagcagcagg gaggtgaagg
 108301 aacattcttc tcccccttcc ttcttctgcc ccactacct gctgtataa tgacaacata
 108361 cctgctgtca tctctaactg tctcatcct tacaacttcc agagtctgtc tgccctgacg
 108421 ctcctgttgg ggggtgggcca tctgttagag gtggggactg tcatagtccc tccgggagaa
 108481 accttcogtc tttggcaggt gactggcagg gccagacgga gccatgctgt atgtctacct
 108541 ccactccaat cagggaacgc tccatgaatg gtcacgcttc ctgtgcattc tccagccacg
 108601 gagctggtct ggggagggga ggctgggaag agagtagagc agtcacagca gggcctgaca
 108661 tgggtcccat gctgagcttg tagtgggccc tatgtgaagg agagggcatg ctccctgccat
 108721 ccattcccaa atccaaggat ccagagtcct cagcctgcca tccattccca aatccaagga
 108781 tccagagtcc tcagcctgcc atccattccc aagtcgaagg atccagagtc ctccagctgc
 108841 catccattcc caaatccaag gatccaaagt cctggggatc ctaggcactg aaaaatcagc
 108901 agacttcagc tgcccccttc ctctgcactt cctgggatgc caggccctcg gccgggtggc
 108961 cgtcagactc tggggtcact gggtcacagt gatcaccct gagtagcaag atggattctc
 109021 ggagcccttt tccattttta tctcaaagtt atgcttcttt atctttatgc atacacaatt
 109081 ttccacaatg agcctaccac ttttcaaata ggaaaaataa gagtcaaaaa tgagttataa
 109141 aataaatata atgaagtcag cctccttgg caatacagat attctgtaac aaggtcagat
 109201 ggaagaatgt ggtgtatcag agggggaata accccagcaa tttcctgaat tctcatgggt
 109261 tgggcttgtt tattacaaa aagcagtcac tgagaaacaa gtgtatatct ctgttgaaat
 109321 ccccattttc tgtgaacaaa ttgacaactc cctgggatg atgggtgatg gggctcttaa

FIGURE 3 (continued)

109381 tatgtttttg aatttgtaat aaggcacaac gacagatggt aaaggattaa taaacttggc
 109441 gtgactacta aaataattga atctgccaga aaatagctca ttaaaaaatgt atttgttccct
 109501 agaggacatt ttttcctcat taaagtgagt caaggatcag cctcgtggat cagccttcca
 109561 ggccctccaa aggccttgct ggggcaagtg agcaggaacc aggagcccg gagggtctct
 109621 ctggagttct gcctcctaaa tcttggttgc agagggagag cacagatgat tgagaataag
 109681 caggctgtgg ctgaggaagt cactggtctg aaagcttttg ggtggtgagg ccaggaaatt
 109741 taacctgtgc tcacataagt ctgatttccc ttggcccaga ctctgtctct cagactctct
 109801 cctcttctct tctttacct cccgtcccag gtcagcttct tctccctctg cgtttccagt
 109861 tccctgtgac cttctgggtc cctcctccc atctccttct tctctctctg cctgttccctg
 109921 gaagtgggag tgggaggagg agttttctct ctgagtctcc ctttatatct ttgaatagtg
 109981 aaccattaca ctattcaagt gcaattaaat agtttctaag cccaccccaa caaggctgag
 110041 tgactctggg cctcccccct gggattgagc aaaggagcag agaggccctt gtcagccacc
 110101 agcttccctg caggctcagc ttcccaggcc tctgatgggc tttcccttta cagtgtggag
 110161 tcggttgggc tggagatggc tatatctgtg gaaaggatgt ggacatcgac agttaccccg
 110221 acgaagaact gccatgctct gccaggaact gtaaaaagggt aaggggtgtg ggggtggcagt
 110281 aggcacacat gcaactgtggc tttccaaagt cacatcttct atggggagag gttctgtgga
 110341 tctaatttaa aattgtactt gtaaagtagc tgcattctcag aggaagtga acagccacca
 110401 acaataaagc cacagtgtct tgaggtcaga aacagttact ggcttaacac aaatgtagga
 110461 tgtaactcgg aactgcattt tccccctaag gacaactgca aatatgtgcc aaattctggc
 110521 caagaagatg cagacagaga tggcattggc gacgcttctg acgaggatgc tgacggagat
 110581 gggatcctga atgagcaggt acctgcttct ctgggagggc ctgtgaattg ccacgtacca
 110641 gggatgatgg gagaaagcct gtgatgtcaa ctatgtatat gaatcatccc aaatgttagt
 110701 ttccatgect gcattccaca gcactgcagc tttttacct ataagattca cagatgtttg
 110761 aaatataaaa ctgacaaaact tggggccacca gagtgtctgat gcttcacaac aatggaggaa
 110821 gtggatttag taaaagtctg agtgatgttc tgccttttca tcttttagga taactgtgtc
 110881 ctgattcata atgtggacca aaggaacagc gataaagata tctttgggga tgacctgtgat
 110941 aactgcctga gtgtcttaaa taacgaccag aaagacaccg atggggatgg aagaggagat
 111001 gcctgtgatg atgacatgga tggagatggg agatttatct tgcttttctg ttttatttgg
 111061 aattcagttg acctgtttcc attgttctct gagagagtag gaatagaatg actgattcgg
 111121 agccttccag ctgtgggtgg ctcatgttgg cctgcattctg gaagacccaa ggtggacttg
 111181 tgtctatgga aggagacccc acagcccact ccaactaccta atggctctgg atgtttccag
 111241 gactctgtat cattgccaga aactttgtat gaccccttca agcagtgtct tgtcagagtg
 111301 tgtctttatg gggatctctc ctcccatct ctacctgtcc tcaactctca ctatcctttc
 111361 tacatgtgag agaccagaa gtggagaact gaatgagaag gcattgagca gggtcacaga
 111421 ctatgcatca caggctacac atcccattgt gggcccttga aggaaaaacc tttttgaaat
 111481 accacctgcc ccaacacaca catacacaca cacacacaca cacatacacc
 111541 actccagaac atgcacaccc cctaaaaaca tgacctcacc ttctgcaagc ctaactgatg
 111601 acccatttcc agtggatatat gctggtaagc aaatcacaga aagccctagt tggtagcatt
 111661 ttccagtttc catgatgtaa ctccgcattg tctcatttgc tgatttcaag ctaccaatgt
 111721 gacatcatca aacacaaaac tgaaaagaga gggacacaaat ggaccagct ccagcacaac
 111781 actgcctaga gccctagggt ctcatgata gctcagatac ccacgagatc ctccctctcc
 111841 agggtcagcc atacagccat catgatcccc tctcgtggg tgctatcata gcccttgaca
 111901 tcttgacaaa attagaattc agtcgataaa tacctctgag agctgttcat ttttaagtct
 111961 ccagaatcc gtcttttgaa gctacctctg gataactgca gaaaagggtg gtctctgtgt
 112021 gacactggcc caggcagaag tgactacca tgcgcctgat ctctccagca cttagaagaa
 112081 gtcagtgaca ttcccttgac tcaaggtagc atttctttct cacaggaata aaaaacattc
 112141 tggacaactg cccaaaattt cccaatcgtg accaacggga caaggatggg gatgggtgtg
 112201 gggatgcctg tgacagttgt cctgatgtca gcaaccctaa ccagggttagt aggatactgg
 112261 ggaattcaaa ctccaggctg aattcctcta tgcaaagact catttaagac ggggtgtctag
 112321 aaaaacagca gagcctctta gctgttgcca cttacctaac aaagcagagg tggaaaaatg
 112381 acacactgtg ggctgaaga tgggtgggatg aacaccacac aagatctgaa gccctaggga
 112441 ctatctccca ggctgtgat tgccctgtgag gttagtaaca cgaacttcat gatgctcaat

FIGURE 3 (continued)

```

112501 acaagtat ttcctgcaga aaggaaaacg gagcatggaa attaaccatt gggagccttg
112561 tgtcccttta gtccctaacc ccctacacag cctatgtatg gacatttcag attaggttca
112621 gccagggatg tgttgcattc cccttctcac tccctctccc tgtctggata attgggtatg
112681 atgtgtcatt tatttttaaa gccctgagag aggggagtca tgggtgccct ctgtgactca
112741 ctcattgatt tggccaaatt gcaaattgca gaagcaaagc aaaatcaacc tgccttctcc
112801 ccatgcctat ggctggctcc ctgtgacctg tgccagagtt ccatgcctcc acctgccacc
112861 atgtaccccc agcgcctctt tccaatcagc tcatctgggtg tgtgggcagc ccatccatgt
112921 agcttgatat tttagaaggc ttttttgaaa attcagcatt gtgcctacac caatatgggtg
112981 ttgtcctttt gcagttttgc accaccccg tccagagaa ataattcccc aaatccaatg
113041 atgatgggtg aggtctgcct tctctggaac attcgggtaca tgcaggccca ggaataaata
113101 acatgtgctg ttctctttgc agtctgatgt ggataatgat ctgggtgggg actcctgtga
113161 caccaatcag gacaggtatg gcatgtctcc caactgcaga gagacagatg caaacatccg
113221 gagaggggtt ttggtttgtt ttttttttg aggcggagtc tcaactctatc acccaggctg
113281 gactacagtg gtgcaatctc ggctcactgc aagctccgat tcccagggtt atgccattct
113341 tctgcctcag cctcccaagt agctgggact acaggcgccc gctaccatgc ctggctaatt
113401 tttttgtatt ttcagtagag acgggggttt accatgttag ccaggatggt ctgactctcc
113461 tgaccttggt atctgcccgc ctgcgctccc caaagtgtg ggattacagg cgtgagccac
113521 tgtgcccagc ccggagaggg ttttaaattt cagaacttcc tgcctgtcca ttccttggga
113581 tctttctggg tggactgagc tgctgggtggg ataatagccc tgctctggt cagaattacc
113641 atgaaaattc tccctgaaag tctgtatag ggtataacgg tgtcagaata ggttactagg
113701 cactccagca agtgagatct atttcaggag aggtaataata gcatcatgct tcacagatgg
113761 gctctggaat aagacagcta gatataaatt tcagctcctt ctcttacatg ccagctaacc
113821 ttaggcaaat tacctaatac ttttgctca attttctcat ctgtaaaatg aggatgacaa
113881 tagatctagc tcataggacc atcgtgaaga ttgagttgat ccatggaaag tgctcattat
113941 ggtttctggt atatacatag cactcaatag acattagctc ttttattttt atattctttc
114001 agctcaggaa aacttcacca tcatcccaaa atagaaggct gtcagtttgc tgagggattg
114061 ctattatttc ctggctcttg aaattttttt aattcagttt tcttatttta agtggatttg
114121 ttctgtggaa gtgagttttg tgaacctccc tagctcaaca cgatggagtc ccacattaag
114181 actcaaggct ggatcaactg atcagattct ggaagaacat caccaaaaac agacgtgtgt
114241 cactcagccc tagcggcacc tgcaacccaa ggttctaaac ctttttgtct ccatagggaa
114301 ttcttacaaa ggcagccagg acaaggatga gagggaaagg attctaaaag agaaagcaaa
114361 aaaagatgca atttctctcc tgatacctgg atcagaggtt gccctgcaga aaaccagttc
114421 ctgacccaaa ccttactcaa ggacagctcc tatgaagcca cagctctctc tctctttttt
114481 tttttttttg agatggagtc ttgctctgtc acccaggctg gcgtgatctc ggctcactgc
114541 aacctccacc tctgggttc aagcaattct catgcctcag actccacgtt acctgggatt
114601 acagggtgtg gccaccatgc tggctaattt ttgtattttt agtagagaca gagtttcacc
114661 atgttgccca ggctgggtct gaactcctgg cctcaagtga tccacctgcc tcatcctccc
114721 aaagtgtgca tctctttcat tatgctctgt gtccttgtct caaagtacat atagtcatcc
114781 ctcagtgtcc cagggtattg gtcccaggat acccctctgc cccaggata ccaaaatcct
114841 caaatactca agtcccttat ataaaatgat gtaatatctg catataacct atacctgtcc
114901 tctatatgca tttaaaaatc ctctctagat tacttaatac ctaatacaat gtaaatgcta
114961 ggtaaatagt tattatactg cattgggtttc ttatttgtat ttttttggtg ttatttttta
115021 ttgttctttt tcaaatcttt tcaatcctca gttggttgaa tctgcggata cggaaaccgcg
115081 gatacagagg cctgactgta ctagctaagt gaacttaaac atatttccca gtccttccac
115141 atctcaactt ctctcatctgc aaagaggaga taaataaatg catcgcacag gttatgggtg
115201 aaaatcaaga taatgtagggt aaagctcccg gcacagtgtc ggcccaaggg tgacatgcag
115261 aaaacagggg ccgtgttatt attggtatca cagtacaagg aaaggcacat cagcaacaga
115321 gectgacatc agatgtccct ctctcttccc gagaggaagg tgggactgta tctgacaac
115381 tgccctaaat gatgtgcgtc aagaatgttc cctgggtgcag gtcactctgc actctgacta
115441 ctatctacat taatttctaa aatatcctgt cccaccagcc tctagatatt tgcccaaaac
115501 aaatgactca ttctgctatg ttttaattcc caciaaagttg aaccttggag aagaggatag
115561 gaactgcttg tttttgcata aaaatgttca gggctacata gaacggctgc taatggaaat

```

FIGURE 3 (continued)

```

115621 agctcagtct tgtgttttat aaagcagacc tgetgcatgc acagggatcc tgetgtttga
115681 gccacatcat tttctgcttg tcaaggctga cttcactttc actggaccct ttctgtcccc
115741 ctgtaccatg tggtaggtgt ggccctagag catggtctgg tccctggctt cctctccaa
115801 aaggggtgcag gggcagctcc tggcccagga caggccgcag gtggaccagg tctaaaggag
115861 tgetcattct tttccagagt aacctagaga ggtctcagac tccaggacac ctcttgagg
115921 cagggcagac tcatcttcag gtggcccttc agcccagaaa gtcaggtgga cagagaagga
115981 gagttctgag aagtccctta gaccagcact gagcccggcc tacacactct cctcgagaag
116041 gcgtggccct gttcactttg cccttctccc catggcgttc aggtctgaat cctcattgga
116101 tccactagcc agggattgtg aagagtaata taacggaaaa cactgtaggg ctctctaaga
116161 gtcagcactt tttcatatat tgaaatttaa tatgcaacat tctgattttc atcatttaat
116221 ctccataaca actctatgag gtaggtacta ttctcatttt acagatgagg acactgagcc
116281 atagagaggt caggtgtcat gcctgaggtc acacgctggg cacagtggct gagccaggat
116341 ttacactgag gctgtctggt tccactgcct gtcattgttc cctcacaca tctctgagt
116401 tgagtatcat ctacagcttc ccagggactg actgatagga gcatctggtc ataatcata
116461 gaaatagacc cttatcttct ttagtaggaa atgactcact tgttttaaga ggttggggat
116521 gggaaaattg tctctgaggg ccatagggga gccttatcta agggaatgac cccagtgggt
116581 ttgattttta gagccaaccc tgggtttaaa aaaacctcaa gcacagactc tcttctctaa
116641 aaatggatcc ttcctgttcc ctgctgaact gtgagccaca tcacctgtcc tttctcctgc
116701 agtgatggag atgggcacca ggacagcaca gacaactgcc ccaccgtcat taacagtgcc
116761 cagctggaca ccgataagga tggaaattggt gacgagtgtg atgatgatga tgacaatgat
116821 ggtatcccag acctggtgcc ccctggacca gacaactgcc ggctgggtccc caaccagcc
116881 caggaggata gcaacagtaa gcaggctcag cccagagctg cacagcacc cctgggtctcc
116941 ttcagccagg cacatggggg cagcctcttc tccaggcacc aactcagaat atcccagct
117001 cccatcacgt gcttctctac acccagcttc tctgcatagc tgcagcttgt gtggacagca
117061 gatattctgt agacaccagt ctccaactca gtcaggactg agctgctttg catcttctctg
117121 aacaacccta ggatgccatc acacaggtca gggaaagcagc cacacactgt ggtcagtc
117181 ccaaagggtc tggagagctg ctccaccatc ttacctgtca cctgccacct tccactggga
117241 gtcccagaaa aggagcagga tagagagaat ggcacagtag aagtgggtata tgetgggttc
117301 acaaacacag atgcctgcag gtgccaggga gataagaaaa tgtctgcacc aagccagaca
117361 tgagacagca gggagtgttg gggactgaag tgacctggag agggcatgcc catccacagc
117421 agtgacatg caaaaatgcc agcacgttag ctgaacaaca cacacgtggg ggcaccaga
117481 agttagtgtt agagatatct tggtaacaat aatttccctg tttctacac attacagtcc
117541 agaaagtgtt gtagacattt gcttatgtga ggtcaagctt aagatccacc agttggtgaa
117601 ctcaactgta ggtaataaga acttcttgag gacagagtgg agggcaactg ctcaaatgga
117661 tctttcaaaa aactctggga ggactggcct ggtcaccag tacaaggact ccagaatggg
117721 gcctggcacc agctcagaca tgtcccagg gctcctctcc caacactgat gggaaatcat
117781 ggcctgggtt gtgggagctt gagccttct gttctctcat cagccccctt cctgccaag
117841 gagtggcggt ggggtgtgagc gctattgagc tctgtctct tctccacccc actcaggcga
117901 cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggtcga
117961 cgtctgcccc gagaacgcag aggtcaccct gaccgacttc agggcttacc agaccgtggt
118021 cctggatcct gaaggggatg cccagatcga tcccaactgg gtggtcctga accaggtgag
118081 tgtcacatgg gcggcaatgg ctcagccttg cctctcaaca gaggcccttc tgatagtggg
118141 aggtcatgtt tagagggtgc agacaataag ccaggcatte ttcacattcg ctcttattcc
118201 tcaacagccc tatgacagac tacttcaatt atgcccattt tacagaggat gaaattgtct
118261 gctacagctt tcatgattgt agcagcttta atgatggtag cactgtggta agtagctgag
118321 atgactggaa ttgggaccca ggcagtctga cctagaacc cacacttctg atctctgcag
118381 cagactgcct tctgcatatc ctctcattg tgtaactaag aagtgcaggc acagagaggc
118441 ttagtagatt ttccagagtc acagagcaag tcacattgat tagaagtata tgttgatg
118501 tccccagtta agggcctgtc caatcagctt aagtgcagct ctcagcaaac ttatttctat
118561 tcagctttga gctttttttt aacctttaca agcacatgct ttctttgagc acataacaca
118621 atagagcaac tatttcagat aatgaaatct ttatatggag gtcagacatc actggccact
118681 cactcatatg gtgcctgagg ttttgagctt ccttaagggtt acttggcccc ttcaagactg

```

115621 agctcagtct tgtgttttat aaagcagacc tgetgcatgc acagggatcc tgetgtttga

FIGURE 3 (continued)

118741 ttctgaactc cctcaactct ctctgcaggg catggagatt gtacagacca tgaacagtga
118801 tcctggcctg gcagtgggta tgtccagggc ctcagttgcc actcacatag aattcttcca
118861 gctactagtg tggtttgtct attgttctaa tcttatctgg tccctacagg gtacacagct
118921 tttaatggag ttgacttcga agggaccttc catgtgaata cccagacaga tgatgactat
118981 gcaggcttta tctttggcta ccaagatagc tccagcttct acgtggcat gtggaagcag
119041 acggagcaga catattggca agccacccca ttccgagcag ttgcagaacc tggcattcag
119101 ctcaaggtat tgggtggttg aagtcattca tctcccttct ttctggacct ctcatctttt
119161 ttcagatatt gtgttttccc atgtggtact tagttaatct aaaaaaatt gatgcattta
119221 tgctaacgtt agagtcaggg aagactacag ttgacccttg ccttcattcc tgtgtgccag
119281 ctacattcta acctctcatg gtgggaatcc cagcctacat gaggtcagag agaggggaagg
119341 tttagagtgc atcttcaggc acactgtgtt ggaaactggc taataaattt catcgatagg
119401 tccaactttg tacaggaggg ctgatgggct acttctgtca ctctgctag gacacaaggc
119461 tgacttaagt agccagacgt ttgataggag ccttcattgg gcaaagttag ggagcaatgg
119521 atgtgcagca ggaacaaaca tggaatgtgt aatggaatac tgggcaaggc ttagtagtaa
119581 aaggttgggg tcacctccat agaaatgaca tttaagtgtt tatgctttgt tctgaatcca
119641 aggcagccgg attataacca tgactataac ctggatcatc acttcagatc caggaagcag
119701 gaagggtggt gcctgtgtcc tgtcctaaaa ccttgcttgt gtcacatgc aggtgtgaa
119761 gtctaagaca ggtccagggg agcatctccg gaactccctg tggcacacgg gggacaccag
119821 tgaccaggtc aggtctgtgt ggaaggactc caggaatgtg ggctggaagg acaaggtgtc
119881 ctaccgtctg tctctacagc acaggcccca ggtgggctac atcaggtagg tagaggcccc
119941 atctccttac cttgctctag aagcaaagca ttctccgttc tgcacccag agccttcatt
120001 tccctgagca attctgacct aggatagtc ccaaggacat gccaggactt ttgtgaccgc
120061 aggatgggga acctagaaaa gaggtgggag agaagatatt cagggtcaga ccaccggagc
120121 aggcagtag gaccaagatg gggatagaag gagcagagct gaggggacga cccagcgttg
120181 tgggttgggt gcatttggat ggtgtgtccc ttctgccatg ctctgcagag aagcctgagg
120241 gtggacatgc caatcggtat gaggtgaag gtgtggcagg gtctcttctc cacacctcc
120301 cctgtggcac ctctgggccc tgtgtaatca cttactagt cacttttcc cctgactgca
120361 gcaactatgt ccttacagtc tgtcttccct gctggatcac aaactgcag agagcagcgc
120421 ttgtatcttt tttttttttt tttttttttt ttggagacgg aatccctc tgttgccagg
120481 caggagtact gtggcgtgat ctcagctcac tgcaacctcc gccttccctg ttcaagtgat
120541 tcttctgctt cagcctcccg agtagctggg attacaggca cgcgccatca cgcaggcta
120601 atttttggat ttttagtaga gatggggttt caccatgctg gccaggctgg tcttgatctc
120661 ctgacctcgt gatccacccg cctcgccctc ccaaagtgtt gggattacag gcattggcca
120721 ctgtgcctag ccatagctta ttattttatc ttgatctccc cagtgcctag cacaagcct
120781 gacatctact acacgtggca tgaactgate atcatgtagg ccaaagttag ctgacttctt
120841 tctttatagg acttttttgt tgttgttttt taagtattct cgggagttag gaggttagg
120901 gctgtgtctt tgaaatgtag atagtgttct tcttcatttg aacttgaga tcaacacca
120961 tcttagccta ttaggatatt ttaggaagga gtactgagtg cattctctc atcagggcag
121021 gaaagcagcc ttgtggaaaa aagaaaatca tgagggcaaa ttcattgttt gtttctctt
121081 gtgacattat gtcaaagtga ctctttttgt ctcacagtga gatgatcatg ttctcagccc
121141 tattaagccc aatgcccctt tttttattata aatattttga aatgccccct tttccgtccc
121201 aaaatggaat catagaaatt acaacctacc atctagaaaa tcaatgtgag
121261 cctaacaat atcatagaga aataagaata atttataaca aaataattta aatatttgag
121321 cacagccaca ccagaagaca aaatgaaaca gacacttgca cccatgccta gaactactac
121381 gaagggtgaca ttctaacaga ctgttgtgtc agtgacttaa atgtttgtta cactgggtga
121441 tgacagcaat gtaaatttct caaatggtac acattttaga atgttaattt tcaacaaat
121501 tttctcaatt taccctggaa aatatagttt atattaaaaa ttgtgcaaaa tatacttget
121561 gtttacaagt gaaagtgagt caggttctag gccctgatag ttgctcttta cctaccctgg
121621 tgtctgagga aactccaga agtgtatgga atgcaggaca ggttttgatt gttctcgcca
121681 gggcattgct cgcctccag catccctggc tgccatcact cagtgcact gtgacaaccc
121741 aaagtgtccc cacagattcc tccaactcta cttagggagt gctgtctct gtggagaatc
121801 attgctctga gattccacca aaagatataa atcagaccaa aggaaaagcc aaagttttta

Figure 3 (continued)

FIGURE 3 (continued)

```

121861 agcatggtat ctagacaagg caactcacat gacaataaga cacaaaactt tctcactcaa
121921 gatagcaggt ttggttttgg ttgattttta actcaagttt gatagtgtga ccaacatcat
121981 gttaggcctt gtgagagaca gaagttggga agaaacaccc cccacccccc tccacacaca
122041 cacggacaca cacggtccct gccctcaagg acttccagtc tagtaagtaa gtggcaacag
122101 ctacagtaca atccagggtca gcgaaaaatg gagcctaaaa cagagcaaag aaagacgcag
122161 gtacgtataa gaagtggggc ccctgggcct cacagtgggc actttacccc gggttgatt
122221 tcatggaggc ccctccggcc gtgttggtccg cagggtacga ttttatgaag gctctgagtt
122281 ggtggctgac tctggcgta ccatagacac cacaatgcgt ggaggccgac ttggcgtttt
122341 ctgcttctct caagaaaaca tcatctggtc caacctcaag tatcgctgca atggtaatgt
122401 gcattctcgt tactgttcaa cattgttact agaattagtc aaacactgcc acctattttt
122461 tataccgcac ttccccccaa aaagcccaac gtcataacca catagtcatt aaaacctgat
122521 ataccctgtg taccagaagt aaaaagcaga tcacatttat cctattttat ccatgtggaa
122581 attaaagccc atagaattta actgcatggt ttagggtttg gggttcagtg agaaatccag
122641 tcagatttaa tttacaggaa gcctttattt tcatgtggtt aaaacataat cacagatgca
122701 aaatccattc tgctgtctga ttttctgcac ggccgggaag gagcactcct gggctttaag
122761 ccaacggttt gcaaagcagc ctgcaggaga aaatggcggc gagggcctgc ggggcgtcct
122821 gggcgggcta acagcgcccc ctacaggacg cctgagccgc gggcgggggg ccgggggtccg
122881 ggggtgaagg agcctcgcta acctccctgt gccattcct attgcagaca ccatccctga
122941 ggacttccaa gagtttcaaa ccagaattt cgaccgcttc gataattaaa ccaaggaagc
123001 aatctgtaac tgcttttcgg aacactaaaa ccatatatat ttttaactta attttcttta
123061 gcttttacca acccaaatat atcaaaacgt tttatgtgaa tgtggcaata aaggagaaga
123121 gatcattttt aaaaaccgtg ttgctcagac attgctctca cgtggctcag gctttgaggt
123181 gccgtttctc ggagggatcc ctgttaactt gcaggggtgt agtttcttct cagaccgggt
123241 ggccgataag atgagcctat gcgtgaatca caaggcccag gccagaggtc tcagctgggg
123301 tccccccagt ttgtccata caaaacgctt aaccgttcca tgctcacctt ggcagcctcc
123361 ttatttcggg taaggggtct cagaaacacg tgtttggggg ggcaccttcc ctaggagggc
123421 gttttctga cctagtcctg ggacagattt gcccaattct ttctgatgct gtcatcccat
123481 cccacactct ccacagactt ctattctggc ccttcaacg taattcttaa gcttatttat
123541 atatttggct cccctagtg gactgtaagc atattgacaa taaaggatca tgtcattaca
123601 atcaatatcc ccacagtacc tggaaatgtg taaatagcca gtaaattgtt actgaattaa
123661 taaacgaaga atgaatgaat gaatgctct taaaggacag tagagtgtac atgatcataa
123721 aagtccctct caactcaaaa agtcacaaca taccctctat ttgtggtacc agtagctgga
123781 tgtacagcac agaaacttgc ctaatttgta cactagcctt tcttgattt caattgtaaa
123841 tcaagatcca agcaaatttt tataaattct ctagaaattt tgtttcaaag aatattgctg
123901 tgcggttata tttttctta ttccagaatt cctagagata tattaaatca tgtatgaaga
123961 aaaaaacacc acagttttat catgacttta acagtgaaga aatacaatgg tgcattgcatg
124021 agatctggag gatttctgga catcctctct tcatgtacag cctggagatg tgtgtggcct
124081 tgtaatccag gacatctgat ctctacatc aaaaactcca atggggccag gtgtgggtggc
124141 acttgccctg ggtcccaagc actttgggag gccaaaggcag gcagatcact tgaggccagg
124201 agttcaagac cagcctggcc aacgtggcga aacctatct tactaaaaat acaaaaatta
124261 gccaggtgtg gtgccacttg cctatagtc cagctatttg ggaggttgaa gtgggagaat
124321 cacttgagct ggggaggcag aggtgcagt gagcagagat tgcaccactg tactccagcc
124381 tgggcaatga ggtgaggct ggtgaaagga ggcagcaacc cacaccatgc ccacctctgg
124441 ggcagcctcc ctgttgctcg ctgtgcaagc ccaagaacgc agtatgtcca caggaaacag
124501 actctcttgg ttaaatcttt tgtgtctata actatttttag aaacctggg cccacaggag
124561 atccagaaca taattccatc ccttagggag cttattacat ttttgggaag acaaaacttg
124621 ttatttatgc aaaacaagaa acaaagacgc atgtagaacc agcagtgtgc tgaagccaac
124681 tctaccagc tcataagagc caactattca agtttttagga atattgtgag ccagttaaac
124741 ggttggtagt ttgaaattgg ccatggtggg agtatttaca cagaaactgg caaactactac
124801 aaatcagggc tccagagaac tgggtgttaa atatttatca gcacacaagt gattattcta
124861 cctgtccta ttctagttg gccctctta ttttttgaa gctgatgtag aaaacttgag
124921 gctttcagaa aatttcttgc ataagaaatg aagtaagaaa agtgaaaatg ggtgggggtgc

```

FIGURE 3 (continued)

124981 tatggctcac acctgtaatc ctagcacttt gggaggccta ggtgggagga tcgcttgagg
 125041 tcaggagttt gggaccagtc tggccaacat ggtaaaaccc catctctact aaaaatacaa
 125101 aaattaggcc aggtgcagtg gctcctgcct atactcccag ctctcagggt ggctgaagca
 125161 caagaatctc ttgaaccggg gaggcggagg ttgcagtgag ctgagatcgt gccactgcac
 125221 tccagcctgg gcgacagagc aagacgtgtc tccaaaaaca aaaacaaaaa aaaaaaaaag
 125281 tgaaaatcag gaagcacttg agagaagcta gccagttgca gactgacggg atgagctagc
 125341 aggtgtggta tgctctcccc caggtaactc cctgggcttc ttggatactt gttatactca
 125401 accttagcac aatgactcaa attcctatta cagttccatt aggttagtaa gaggctcatt
 125461 tgaatcttac acctctagga ctgagtggcc atcagtctct caccaactag tatgaattca
 125521 ttccaatgcc cattcacctc ctgacttttc atggagatcg agaagactga ggagctgggc
 125581 atggtgggtg gcacctgtgg tcctggctac ctgggagggt gaatggggag gatcacttga
 125641 gccaggaggt tcaagtccag catgggcaac atagcaagat cctgtctcac tttttttttt
 125701 tttttttaag tactggggga atgggaggcg tggctgggaa agaaaagagg cattgtcact
 125761 gtgggggaat gggaggcgtg gctgggaaag aaaagaggca ttgtcactgt agggaaaaga
 125821 tcatggctga gtagaatccc acgggaagtg tgggagatct ctgggggcag gatgagggca
 125881 ctgggggcag ccagaggagg cctgggggca tgggagcagg tgcacaaagg gatgtgcagc
 125941 cctttttgcc tacactcaag aaaaaggaaa aaaaaactct tccttctccc catccagggt
 126001 attagtccca ggctccagaa gtattatggt gattatcctt aggttaattt tggagacagg
 126061 ctatagagtt aaagagaatg aggaagatat agaattccagc cacctgctat tgaaacatct
 126121 gtaggcattt tttattgcct aggctagaag ataactggga acagactcaa gcagcaaaaa
 126181 agaactctgt ccagaagtga ggccgtgggc aaactagata ctgtacagca taaactaggg
 126241 ggtgagagggt ggggtgcccc tgtttgggat acacgcctgg ggtccccagt aacatcgagg
 126301 ctgtaagggt ggctcaacct ttcagtggca tgaagaaacc cctgcagtg tccacagctc
 126361 cgcactctac agccccgccc aatttggtca taggcaacct caggagacag agacgctcac
 126421 cccaaatttc ctggggcagt atagtttcca cagtgggtga ggggtgtttta ttccagagaa
 126481 ataattctag tactatagaa ttaagtatag agatgatgaa gtaaatggga cccatcatcc
 126541 taatatTTTT gtgtgggtgtt ggggaattat gtttgaatat gtggcaacgt acttgaaata
 126601 tctaagagaa tttggcataa ttagagaatg caaattgaac ttgtgattcc agtatagaat
 126661 gcagacagat gctcttcacc ttaaaatggg gctatgtcct aataaatccg taagttgaac
 126721 atatcttaag tccaaagtgc atttagtact ccaataaacc caagtcaaaa gtttaagtca
 126781 tccatcatga agtccagata ctctcaatt taaatagggt tatgttttga taaaaatcgt
 126841 caaaccatca ttagttggga gttgtttata ttgaatat ttgtttatca tcatcatcat
 126901 tattagtatt attgagacag gatctcactg tcgctcaggc tgcagtgcag tgggtgcagc
 126961 tcagctcact gcagcctcaa cctcctggct caaatagtc tccacctca gccctccaag
 127021 tagctaagac ttacaggctc ataccaccat atccagctaa ttttttctat tttttttgt
 127081 aaagatgggg tcttactgtg ttgccaggc tgggtctcaa ctctggggt caaatgatcc
 127141 tctgccttg gccctccaaa gatagtattt gatttttagac ttgtgatttt aagtcagaag
 127201 gtaggagaat ttggttgaat atgaaaatat tgagatgatt aagataattt ctcatccatt
 127261 atatacatTT tttaaattta caagttatat aagcacatag gtaggtttca tcaaatgaca
 127321 aaaaaatgca taaatgaaat ttaaatatat tgtttttaat gttacaaatt agcatagtat
 127381 gtcataaatt aatatattac atttataaat gggattttaga gtgtttaagg aaatttaatt
 127441 aagtttgcaa atgggactaa acattaatca aaagcctaaa agtgattata ttttttgcta
 127501 tagagtaata agtagatttg catatttata gaatatagta aagtaatacg atttttaagt
 127561 tgaatttttt aacttaagggt tttgtaattt gtaactttaa tcagatacta attttaaac
 127621 caaagtcacc ataaattgtg ttttctgtaa aagacaacct ttcttcagg aataaggaaat
 127681 gccctctaca agctccacat tttaccacct cgcccaaatc gttgggttaat aacctcagac
 127741 aattgacatg ccccccaat ttcttgaggc agtagagttt ccttagtgga gaagggtctt
 127801 ttattcctga gaaataattc tacaattgta gaactaagta cagatatgct gaagtcaatt
 127861 ggacccatca tctaatattt tttgtgtggt gcttgggaat tatgtttgta tatgtgcaa
 127921 agtacttgaa atatctaaga gaatttgga tacagaatgc aataaattca atgtgggatt
 127981 ctagttttaa atgcatacag atgtccctt acttaccatg tagttacatc ctgggataaa
 128041 cccacggcaa gtcagaaata tcataagtga aaatgcattt tatatatata tatatatata

FIGURE 3 (continued)

128101	tatatatatt	tttttttttt	tttttttttt	tagatggagt	cttgctctct	cgcccaggct
128161	ggagtgcagt	ggtgcgatct	cggctcactg	caagctccgc	ctcctggctt	cacgccattc
128221	ttctgcctca	gcctcccag	tagctgggac	cacagacacc	caccaccaca	cccagcta
128281	tttttgtatt	tttttagtaa	agatgggggt	tcaccgtgtt	agccagcatg	gcattttaata
128341	tcttgataag	cccatcataa	agtcaaaaaa	atcttaagtc	aaaccattat	aagttgggga
128401	ttgtctgtag	ttgagtattt	gatttcagac	ttctgatttt	aaatcagaag	gtagggagaa
128461	tttggttgaa	tatgtaaatg	atactgaggt	ggttcagata	atttataatc	cactgtataa
128521	atTTTTTTTaa	tttacaagg	ttatttaagt	gcgtaggcag	gttttgtcag	acaagtgaca
128581	taaaaataaa	acattataaa	tgcaatttaa	atttagttta	taatgtatta	caaattagca
128641	tagtatattg	ttataaatat	attaaattta	taaatggaat	ttagagcatt	taaagaaatt
128701	taattaagtt	tacaaatggc	actagacaat	caaaagctta	caagtgtata	taaattttgc
128761	tataaagtaa	taagtagatt	tgtatattta	tagatgtagt	agagtcgtaa	gatttttaag
128821	ttgaacttct	atacttaagg	ttttgttaatt	tgtaacttta	atcaaacatt	aatttttaaaa
128881	accagtcacc	ataaattgtg	ttttctgtgt	atgaaagcta	cccttataag	caaataacaa
128941	aatcaataaa	aaacagcaca	gtgacagtca	gcactgattt	tttttttatt	gaggggtgga
129001	gatctggaga	actgcacct	caattccaaa	taaggggcta	acaatcatcc	cagaacactg
129061	cccttttcta	cattggggac	tgtcaccgca	cagagggatt	aaggaccttg	attcagctct
129121	ccctgactcc	agggcatcac	caagcagctg	gctgcagcaa	cgctgggggc	ctgagctatc
129181	ctgctgtcag	ctctcaaacc	cctcattttc	caggacacat	ggcctgaaga	atgcactagc
129241	cccaacttgg	ggccctgggtg	tggcgatgtg	gcaaggagca	cctctctctt	ctccctacta
129301	catcaaaaaat	tttaaggatg	cctaaacatg	tctgcttata	tggagggctg	gggtgaatga
129361	gacgtccaga	atgaaagctc	tcctattctg	actgcgccac	ctgactgaga	agtaacttta
129421	gcttatttcc	ttggetcatc	ataaaagaac	gaaaagtatt	ttcctcacat	tgtctacctc
129481	ctcaactatg	gagtggacat	gcacccacgc	cttcaactca	ggtcttttgag	aaaaacaact
129541	ttatttccca	aatttcacct	tgtttttctt	ctgagaactt	attgtgccaa	actcaagaga
129601	aacataacct	cagtctttct	tgggggtccc	attcttcttc	cagaatcaag	actctaggat
129661	gtcttctcag	aaccaagggtg	tttggggagg	gggacatcta	tccacacaga	tcccttctaa
129721	cgtgaccata	gtcagcaccc	accccccata	ctctaacaga	ccacactggg	gacctcaaat
129781	ctgtgtgaac	ctttgcagcc	attccttttac	tggcccccta	cctatggact	gcagaaagct
129841	cccacaggcc	tccttctcct	ctctctcagc	atggggagaat	ccttctcaag	tatgaggagg
129901	gaagccttat	tctccctttt	gcttttggtc	aagaaatctt	atccattccc	ggtgttccct
129961	cacttacgcc	ctgctatgac	ttgaatgtgc	ccctgaagt	tcatgtgttg	gaaacttaat
130021	ccctaataca	acacttttga	aaattaaggc	ctagtgggag	gtgtttaatt	catgagggca
130081	gagcccttgt	gaatggatta	atgtcagtta	taaaagacct	tgaggctgtg	agttccattt
130141	cttgctctct	tatactctct	gcccctccat	cttcaccag	gggatgacac	agcaciaaagg
130201	tctttaccag	ataccagcac	ttgatctatc	ttggacttcc	caacctccca	tgtaaaataa
130261	atttcccttc	tttgtaagtc	accccatcta	tggatttctg	ttatagcaat	acaaaatgga
130321	ctaagacact	cccacaaaacc	ccagacttcg	actatgggct	tagctctggg	tacacaaaaa
130381	ctagaacagt	ttgcaagctg	gctctgactc	acaccaccac	agcctcactg	aaatagtggg
130441	cccagagtcc	actctgccag	aatggggagga	ctggggcaca	gggaaatatg	aaaaggaaat
130501	gggtcaatat	ctcaaagtgc	taccacaaca	tattgtgaac	aacttcaata	gctaatttta
130561	aaaaattctt	tttagaaat	gaggtctcac	tatgttacct	aggctggctc	cacactcctg
130621	ggctcaagca	atcctcccac	ctcagcctcc	caaagtgtcg	ggattacagg	catgagccac
130681	cacacgtggc	ctcctactgt	ttagattttg	tcctaaaaga	tgcctatgtt	taaaccaggc
130741	cagatcactc	accctagaaa	ttccacaaat	aaccaatgag	ctgatggctc	caggcagacg
130801	ggtggctgag	cccagttccc	atcctggcct	ggaggaggag	acctaggaag	tcacagctta
130861	ggatacactg	gggcggggcg	gaagggtttg	ttttatccat	catccaagct	gtgattcagc
130921	gcataagtct	cccttttcatt	aagtttaact	tgttgagtaa	cattaaattt	atatactgca
130981	aagcacaata	gaatttcact	gctgtgaaca	tacgcgttca	caagcatcat	ccaactaagt
131041	gtgagcatct	gctgcctcat	tgggggtatt	tactagtcat	tcattattta	tttattttatt
131101	tatttttgag	acggaacctt	gctctgtcgc	ccaggctgga	gtgcagtggg	gtgatctcgg
131161	ctcactgcaa	gctccgcccc	ccgggttcac	accattctcc	tgtctcagcc	tcccagtag

FIGURE 3 (continued)

131221	ctgggaacgac	gggcactcgc	caccactccc	ggctatTTTT	TTTTgtattt	ttagtagaga
131281	cgaggTTTTca	ccgtgttagc	caggatggtc	tcgatctcct	gaccttTgtga	tcgcgccatc
131341	tcggcctccc	aaagtgcctg	gattacaggc	gtgagccacc	gcgcgccggc	tagttattta
131401	TTTTgcagca	cctattagag	taaacagtag	cagatatcta	atgtctaaga	aaaatttatg
131461	gaaggaagat	ttgaacgaaa	aattttctcc	attagcatat	TTTTaaggag	TTTTcctcac
131521	aacaattcca	tcccactcct	accctccta	ccagaattct	gaggatcagg	gcttgagaac
131581	taacatctcc	aaagtcccag	tagctctgtg	gttttctaca	ggctcctgga	ggataaggac
131641	cgtgccatgt	ttatctcacc	ctccacctct	caataaagta	caaattTgtg	gaattggcga
131701	ggccaagagg	cctcaaattc	ttgtatcttt	catatcatcc	actagggggc	agcaatcctc
131761	taaaaaatagc	ccctaaacca	gccactTTTT	tagctaaaag	atgactaaat	ttcattaaaa
131821	gtagaataac	aaacgcctgt	aatcccagca	ctttggcagg	ccgaggcggg	cggatcacga
131881	ggtcgggaga	ccgagaccat	cctggccaac	acggtgaaac	cccatcccta	ctaaaaatac
131941	aaaaattagc	tgggtgcggg	ggcttgccgc	tgtagtccca	gctactctgg	aggctgaggc
132001	aggagaatcg	cttgaacccg	gggagcggag	gttgcaagtga	gctgagaccg	cgcactgca
132061	ctccagcctg	ggcaacagag	caagtatgtg	tctcaggaaa	aaaaaaaaaa	aaaaaaagaa
132121	taacaacaac	tacaatttat	taaacactta	ctctgctcct	agcactatgt	tatatgctaa
132181	tagttcaggg	cttaagaaca	atTTtattgg	ccaggagtgg	tgtctcatgc	ctgaaatctt
132241	accactttgg	gaaggTgagg	caggaggatc	gcctcagctc	aggaatttga	gaccagcctg
132301	ggcaacatag	tgagacctat	ctctactgag	aatgtTTTaa	taattcgTca	ggcatggTgg
132361	tgtgcaactgt	agtcccagct	acttgggagg	ctgagatggg	aggattactt	gagcctgagt
132421	ggacaggctg	cagtgaGcta	tgattgcacc	cctgcccttc	agcctgggtg	acagagcaag
132481	accctgtcta	aaaaaaaaaga	actcttattt	atcaaaaacga	acatctcaac	aaaaagcaac
132541	aaccaccaca	taggaaggaa	accaccacct	aaacgtgaat	tattgcaact	tagtctctga
132601	acgaacactg	aagcctcgct	ttctTTtagg	tattgcttcg	caaagacttc	tgccttgtcc
132661	ctcagcctaa	attcacagga	tagagtcttc	tccatgagca	aagcaaagag	ccattcatct
132721	atccactcat	cattcactca	ttcttcagac	acacactgag	caattactac	ataccaggca
132781	ctgtgctaga	tactgggagg	gattTTTaaa	gtacacaaaag	ccagtccatt	ttagtccagg
132841	cctctgtatg	actgaaagcc	tttgtcttac	tattaataat	actgatcata	actgcaaaat
132901	tatagtgtag	TTtagaatta	aatgaacctg	gccgggcgca	gtggetcaag	cctgtgatcc
132961	cagcacttta	ggaggTggag	gcgggcagat	cacttgaggT	taggagTTtg	agaccagcct
133021	gggcaacatg	gcaaaaccca	tctctactaa	aaatacaaaa	attagccacg	tgtggTggca
133081	tgcacctgta	gtcccagcta	cttgggaagc	tgagacagga	gaatcacttg	aacctTggat
133141	gcagaggTtg	cagtaagatt	gtgccactgc	actccagcct	gggcagcaga	gggggattcc
133201	atctcaaaaa	aaaaagaatt	aaatgcacct	caaagccaac	cactagattc	tctcgctctg
133261	TTtagaagac	atTTgtTTgt	Tgtaagaacc	cagacttaat	cctgagaggT	TTtagcgggg
133321	tctaaagaga	gcctcgctcct	aaacatccct	gccaggaaga	acacttccag	ggagcagggg
133381	gcaggcagct	tccTggccca	ggacagtctg	catgacctaa	attacttgag	tcaaaaattc
133441	TTTgggccat	atagtgtTTt	ggTggTgtct	gtTgggtTTt	ctattTgcta	acttgagcaa
133501	acattTTaaa	TTtgagtgtt	TTtagacaaa	aacctggatt	tccaacttct	ctTTaaaaag
133561	tcaaaagctc	cagcctccat	ctgcattcac	gcacaggaac	cttgaaaagg	gcctgtgttg
133621	tccatgcacc	gcagtgtcca	cacatgtaag	TTtctacctg	actctgtaag	Tgatcgagta
133681	tgagagtccg	tacttgggat	ttcccaggta	ccctgtgcgg	cctgcagggg	atatggagaa
133741	ggTtgggact	caacccctct	Tgtggcaggc	caggTctcac	gaatagctaa	acaggcaggc
133801	ctccatgaca	actgtTTcag	cactgactga	gtgcttaggt	taaacattaa	aggctgcaag
133861	agccagtgtc	cttacacaaa	ggctggaatg	Tgacaaaagc	caccaagagt	cttgccTagg
133921	cctttcctgg	gccttgaagc	atgacaagat	aacaaagaaa	ttcttacatt	cctcgTacct
133981	acgtTTtagga	Ttaaacacgt	TTtattaggg	gtcagcaaaag	aactccccag	accgccataa
134041	ctcagcggga	ggcaagataa	gggtaatcac	ccccagcacc	Tggacccatc	tagattaaat
134101	aaacttactg	aggctccgga	ggaaggTctc	caggactcag	atcttagtta	Tggattacag
134161	ggaatcagtc	actTgtgtct	TTtgatgaat	ccacacttac	atgtagacat	atagcttcat
134221	ataagcactg	gaaaactTTg	Taaatatgag	tcggtctggT	gatattTTcc	Tggccttctg
134281	cctgtaccgg	gttacagaaa	Taaactctct	tctttcccag	TTtatctgca	tctcattact

FIGURE 3 (continued)

134341 gggccatgag aacaagcagc ccaaccctca gttcagtctg ggaacactct ggctaacaac
 134401 ctgttagggg ttgtcaccac tgccctggaga ggataggggt acactggggg ccagccgaca
 134461 ggagctgagg tctcaggtag aagattccta ccttatcaat agatggaaag agattcaaac
 134521 ccagcatcac tgactctggt tccaaaatct gaaattcttt tatagcgaca gcacacattc
 134581 accaggtatg cagagaagag ttaacagcag gtccgagatg gctgctgac tttagttaga
 134641 aaggcctaata tgcaaagtgt gcccttgggt ggtatctgag cacttggctt tccagagtgt
 134701 tcccaccatt tctgaaactg ataagagtgg ttcaccatgt cttgactgta cagtgtgggt
 134761 tatgctgagc atctgctttc tttctgggag ttggaatttt ggtacatggt agggagaagg
 134821 tgccatacaag acgagaccct aataaaaacc ctgggtgttg agtctctaag gagcttccct
 134881 tgtggccaac atttcatatc ccttgtcaca actcattgct ggggaaatta agcacatatt
 134941 atgtgacttc cacctggaga agactcttgg tagcttgccc ccttgggttt ctctggactt
 135001 ggccccatac acttttcttt cttttttttt tttgggtgctg attttgcctt gtatcctttc
 135061 actgtaataa attataactg taagaataac tagatgctga gttatgcttc agccaatcac
 135121 tagattctat ttagaggggca tttgtttatt tgaagaactc agacttactt aatcctgaga
 135181 gtttttacct ggggtccaaag agagccttgt tctaaacatc cctgtctaga aagcctccga
 135241 tgagactttc tagcaaacca cttaaagtga gtggtcttgg agaccccgaa acatcagtca
 135301 actatctcca acaactgaaa gaggtcttgg gcttacaagg tgcaaagaat aattgaggtg
 135361 ctaggtcacc acaggcatca ctaatgagaa aataatggaa aacaggggcc taaaagttag
 135421 ggccaatcac cacaaaacac ctgcagagct ggagaagcaa aactcaaagt ggagaccctt
 135481 gagattggac acatgacaag ggacagagtc taactgaagt ggtttatttg gttagtctca
 135541 tacctagaga aatttaaggt gaggcagtca cccccaatac cagctctacc cttctttcat
 135601 agtcatagt tcccaaattt ttgcaggaac ccagatgccc agaataaaaag attatacttc
 135661 ccaggtgagt tgtggccatc taagtcttga tcagtggcat ataagcaaaa aagttcatgg
 135721 tagcttcttg gaatcttctt ctaaagaggg ttaatttttt tttttttttt taaatggagt
 135781 ctactctgt tgccaggctg ggggtcagtg gtgcaatctt agctcactgc aacctccgce
 135841 tcccggttcc aagtgtattc cctgcctcag cctcccaagt agctgggatt acaggctgc
 135901 accaccacac ccggctaggt ttcaccatgt tggccaggat ggtctcggtc tcttgacctc
 135961 atgatctacc tgccctggcc tccgaaagtg ctgggattac aagcgtgagt caccacgccc
 136021 agccagatca ttaatatctt ttattcgtcc tcttatecct cctcctagge tggaaatagg
 136081 atataatagc tggagttcca gaggtgtct tgagttgatg agaaagcctt gggaaatagaa
 136141 gcgtcatcac agagaacaag atagaactga caccgtggag taacatacca gtaacagacc
 136201 ataagatttc tatcactgga ctttgtggac atgaaaaatc tccatctggt cttggggctt
 136261 tactgttact tccagctaaa tttaatcttc cttaatgcaa aagaaattcc ggatggggaa
 136321 gtgtttataa agtcatgtat ccagaacctt agactcacca aatcttagat ctgaagagtc
 136381 atcaggaagc ttttgtttc agccttttca ttttacagtt ggaaaaactg aggcctagtc
 136441 acctctgttg tttgtcaggg ttacatggct agttaggagc aaaactgagg ccagatccca
 136501 ggttttgggg ctacaggctc atggttctca ttttctgct atgagaactg cctcaggtag
 136561 gccagggcag gggtaaaagtc caaaaggggg tttctgtcta gaggactcaa agaaaaagca
 136621 gtgtcggatt gccgtagctc acgcctgtaa ccccgactc ttgggaggtc gaggcaggtg
 136681 gatcgcttga gcccaggagt ttgagaccag cctgggcaac atggtaaaac tccatttctt
 136741 caaaaaatac aaaaattagc tggatgtgat ggtatgtgcc tgtcgtccaa gctacttggg
 136801 agcctgaggt gggaggatag cttaagccct ggaggttgag gctgcagtga gctacgatgg
 136861 taccactgca ctctagcctg ggtgacagag tgagactcta tctcaaaaaa aaaaaaaga
 136921 aaagaaaaga aaagaaaaaa aagaaaacat gctgatagac tgtactgtat gaaatttcag
 136981 agatctcctg ggaggccatc ccgcttccag tttcgatggg cagagactca acagtggag
 137041 gcaggtatga cctgggactt ctcaggcccc agcttccctc ctcttcacct tctctcacc
 137101 catcagactt cacacctccc tcttcccgtg gtgttcaaac ctaagtctat acagagtgcc
 137161 tgaaccccat atggtgctta gtggtggaac ccgggctaga tttcacccca cctgtgcctt
 137221 cttggccagt cctctatga agtacacaga ccgacaacct tttacagagg actgggcttg
 137281 acaaagagct cgcttgatc catcttgctt cctgtgctgc acccgcccc actcacaccg
 137341 agggagtctt ggccctgctg gaaacaccgt ggcagatgct ttgggtggct gccatttct
 137401 ttcactttgt cattcacgga tgtcaaagca ccagcacctg cagttctttg tttctgggct

FIGURE 3 (continued)

137461	tcctctggtg	caaaagctgc	tttttctgcc	tatgttggag	gtgcggggga	tttaggagac
137521	ctaaggaatg	ggctccagtg	agatgaagg	aacgggtgtg	taaagcctca	gcccctcgcc
137581	tggtgggggc	tgagtctgag	gaatgtgccc	tgcattgttc	ccgcattgatt	aggctccagc
137641	tgcccccagt	ggtaaggccc	ctctcctccc	tctcctccct	ccccagtcta	ggggtgcttc
137701	acctcccaa	taaagagggt	tcactcatcc	ttatctcagg	gtctgcttct	gggggagctg
137761	accagaagca	aaccttctct	agcactcaga	ttttacttac	tccaaaatta	gggaatatta
137821	agtttgaaca	gataccctgt	gctcaaaagc	atgcgcacag	acatatatat	agaaatttcg
137881	ggcggggtgc	agtggctcac	gectgtaatc	ccagcacttt	gggaggccaa	ggcggatcac
137941	ttgaggccag	gagtttgaga	tcagcctggc	caacctaggg	agaccccatc	tctacaaaaa
138001	taattattta	gctgagtgtg	atggtggaca	cctgtagtcc	cagctactcg	ggagactgag
138061	gtgggatgat	cacttgagcc	tagtagttca	agactacagt	gagccatgat	ggcaccaccg
138121	tactccagcc	tgggtgacag	agtgagaccg	tatctcaatt	aaaaaaggaa	atttccaact
138181	tttctctgag	cccactaccc	aaagacaatc	atatgcctca	gccactcagc	tgagctttac
138241	tgcccttcca	agaatagcct	agaaatccag	taaggacaat	ggaaactaga	aaaatgaaga
138301	gacactgata	ctggatctaa	ttcatatttt	taacccctact	caccacctgc	aatcacaccc
138361	accacagacc	ttcagtaagt	gctcagtaaa	tatctgttag	tcagcaaagc	tactgggagc
138421	acacactctg	cccttgccgc	atacaccttg	cccccaaccc	ctgctctatt	atggtgattt
138481	ccccactcct	agtctctctg	cacagaatgg	tgaagaaact	gcatttggtt	ttttcaaact
138541	attcttcagg	ccgggcacag	tggtctatgc	ctgtaatctc	agcactttgg	gaggctgagg
138601	tgggcagatc	acaaagtcag	gagttccaga	ccagcttggc	caacatgggt	aaacctcgtc
138661	tctactaaaa	attaaaaaaa	ttagccaggc	atggtgggtg	gcgtctgtat	tcccagctac
138721	tcaggaggct	gaggcaggag	aaacgcttga	acctgggagg	cggagggttg	ggtgagccga
138781	gatcacgcca	ttgccctcca	gcctggggcg	cagagcaaga	ctctgtctca	aaagaaaaaa
138841	agaaaaaaa	aatacaaaaa	aaaaacctat	tcttctgcac	cctcaggaga	atggggccagg
138901	aacatgctct	tgaaacaggg	tgcttgctca	gaaatacatt	tccatattag	caggcgcagc
138961	tgtcactcct	gctggaggcc	tggttgcttc	ttgagaactg	ctagtctcac	catttgccac
139021	atgcccaaca	ggaaaattta	attcacagaa	actcagaatg	ccagattcct	cctccctccc
139081	aactcaggga	tccctcgaag	agcctgcttg	acagctgtta	tctccttcat	gaacacctca
139141	agtgcacagg	aactcacccg	tgtatgatgt	agcctatcct	attggtggaa	ggctctagtt
139201	actaataatt	cttattagta	aacatcatct	attaaacatt	tgctatgtgc	cagcctctat
139261	taaaagtaat	ttaactagcc	aggtgtggtg	gtgtgcactt	gtggtcccaa	ctacttgga
139321	ggctgaggca	agaggattcc	ttgagcccag	gagttcaaga	ctgcagttag	ctatgatcgc
139381	gccactctac	ttcagcctgg	gccacagaa	aagacctcaa	ctcctttaaa	aataaaaaatt
139441	aaatgaaatg	tgcttaacct	gtgtcaactc	atttaatcat	gacaacaatc	ctatgaaata
139501	gatgctattg	ttattactcc	acctgacctg	acaggcaagg	aaacttacag	cacagagaag
139561	taaataatta	gctgaagatc	acagagctag	ctagcaagtg	gcagaatgca	atttcaaaca
139621	aaaagtggcc	tttgagagct	ttcctctgtt	gccttttttc	tacttggggc	agaaatcttc
139681	catcctataa	gtgagccttt	ttaggtccag	atccttgtga	aattgtgatg	agtgccaaag
139741	accctttcca	tgctactgtg	catatggtca	caaaactctg	catattattt	caggggagtca
139801	atctacccca	gtccttggac	cccagggttaa	gaaccacagc	taacacaaaa	taacggttgc
139861	cttgatctca	tttggaattt	ctcttatgaa	ctttttttat	totaacagac	tttctccaag
139921	cttaattttc	cctatttttt	tatttttttc	agacagagtc	ttcctctggt	gcccaggctg
139981	gcatgcaatg	gtacaatctt	ggctcactgc	aacctctgcc	ttctgggttc	aagtgatttt
140041	cctgccttag	cctcccaagt	agctgggatt	acagatatgc	accaccacgt	ccagctaatt
140101	tttgtatttt	tagtagagat	ggggtttcac	cgtgttgctc	aggctgggtc	cgaactcctg
140161	acctcaagag	atccacccat	ctcagccttc	caaagtgtcg	ggattacagg	catgaaccgt
140221	cgcgcccggc	caattttccc	agttcttagat	gaaagaatgt	tcaaccacac	caatactcaa
140281	agatagacaa	attcaataaa	taaggtttaag	gtgttatttt	gtacctttat	aacaacaaac
140341	aactataaag	aaaatactca	aaaatcaagt	ctgtggccagg	tgcaagtggca	gacacctatc
140401	atcccagcac	tttgcaaggc	caaggcagggt	ggatctctga	gctcaggagt	tcaggaccag
140461	cctgggcaac	aagatgaaac	cccattttcta	caaaaaatta	gccaggcacg	gtagtgcgcc
140521	tgtagtcgca	gctactcagg	agactgagggt	gggaggatgc	cttaagcctg	gaaggccaaa

FIGURE 3 (continued)

140581 gctgcagtga gctatgatca caccactgca ctccagccca ggcaacagag caagaccctg
 140641 tctccaaaaa aagagtgtgt ggagggtgtg actcctgttg ctgctgctat ggtacctgta
 140701 tacactacca ttagaaattt ggcaacacac aggaaagact gatgaaaaca cccataagct
 140761 tttgacccgg taattctact cctcaaattt attccaaaaa aataatttag atggaaataa
 140821 aagtcacatg tagaaagata tttatagcaa acttttctct aagagccaga aaaaaaaaaa
 140881 aacaatgtcc aaaaaaacia ctgggaaaatt ataagcaa atgggtcatta gcttaatgga
 140941 acatataaaa taatgaaaag cattaaaaata acatttagga aaaaatgtgg aaggtggaaa
 141001 tcaacatgat gatgattgtc aattgtgggg tgatagggtg gggatgcccc gggaactttc
 141061 aattcgcttt ttattgctc acttttaaaa gtgagagacc aaataatcag aacaaaagca
 141121 gctcagagga aagagagaga aactataaag gatcagagga tccctcaaac caaaatgaaa
 141181 caaaacacta taaataatat cctctatgaa atatgaaaag atatgcatcc acgaaagaga
 141241 aacagaagag gatgggggtg aatcagaaaa catgaaagaa ggcttggcat ggtggctcac
 141301 acttgtaatc tcagcacttt gggaggctga gtggggcgga tcccgtagg tcaggagtct
 141361 gagatcagcc tggccaacat ggtgaaatcc catctctaca aaaaatacaa aaattagctg
 141421 ggtgtggtgg tgcacacctg taatcccagc tactgggagg ctgaggcagg agaattcctt
 141481 gaacccggga ggcagaggtt gcagtgaagt gagatcgtgc cactgaactc cagcctggga
 141541 aacagagcaa gactcccatc tcaaaaaaaa aaaaaaaaaa aaaagataga gttattggag
 141601 atggagttat aacaactgaa gtagtaaatt caacagaaac tctggaagat aaagtaggct
 141661 aactatccag aaaattgaac aaaaataaat agagagatag aaaatgggag aaaagatgac
 141721 caatccagaa gacccaatat ctacctaata ggagtccgct aagagacaac agagacaatc
 141781 tccaggacag agagtgtaac tggccaagcc aaaggcatgt gcccaaccca tggctaggta
 141841 ggaaagggag gatctggccc atttgggtct agaaggaaa ggactgtct cccccacaa
 141901 cccaggagta tgggtccccc aaaggaaaag taatagatgc tactagaaaa tgagggttag
 141961 atgatataca gccaaagagt accactgtcc actgcacagg aacctctgtt gactcctagt
 142021 aaccacacct tcttctctaa atactcatag agcactttca ataggatttt tgcctctgt
 142081 caaatgcaa acctccctct ctaggcctgt tgtgcattat catagcttag atgtgtacat
 142141 cctacatgcc aattgtttct catgagttat ctcatataag ccttacaaca aagcaaaaca
 142201 gaaaatcatc ttaataaacc caattataaa tcaggacact actgcccaga gcggttaaga
 142261 agcatgcccc gcttcaccca gctaataaag agattcaagc caggatttgg acctagtacc
 142321 ctgaccatgg agctcgcaat cttatgccac aggactttat gtacctctcc ctggaggctt
 142381 ctgggtgctt ccagtgaacc cgatgacctc ctgcttctg gaccccaaag aggatctaaa
 142441 gtaggtcgte aaacagccgt gagagccctc attgagccac acaccccgag ttttctgcat
 142501 gcagcccagc acctagctca gagagtcctt ggcatgcttg gtcaccctag gaggtccatt
 142561 agccctccca agtcaccagg gtgctgggag ccgccactag atctcagccc tcttccagct
 142621 cacacacctc actcaggggc tgtccacagg cttgctctgg ctgtagcatg ggaacccctg
 142681 ctccttctta tctgggtgcaa ggagcccagg ggatgccttt aaggaaggte agccctgtcg
 142741 gtgagacatg ttgtgcaaaa ggcaggttga ctggagaaaa gtcatacacg tttatttcac
 142801 atttatacac aggatccttc agaataaaaa cccaaagata acgcggaaat tggccatact
 142861 gatgcttaag attaacgaag tatgaacagc tatgtacaaa tgcgactgga caaaaaaagg
 142921 gtatgatcta atgtctgatg actgagctgg gagattcagt gaggcctgtg tagattcttg
 142981 gcctctctgc acagcatccc tttcttctgt gtgtggggca ggacctctc gggaatgggg
 143041 gaattatgac ctacagtcaa acaaggtaag tcggatcatt tctttatggc cagtttttac
 143101 acagaaaggc agagggaaaa taagagtaat attttttagga tttatggctg gctttgggga
 143161 aaagaggttc tggtttctat ggggaagagg gattctagtt tctaaggcta gactagggga
 143221 gaacgcgctt gagagaaagg agggcaggta tgcagagaaa aacttttaac ttctgaggct
 143281 ttcatttttag agtactcttt tctgagtcac aacagtggga agccagagga agcagaactg
 143341 tacttgtgag agccccaga cagctggctc tccccacg cagcagcagt caggccccag
 143401 agctcctctt gcacgacagc acaagggcaa agcctgtctg ggctgggtga agcttccgtg
 143461 ggtctggctg tattgggggg aagacctgtc tgggagcctc tcaactatt tatctgttct
 143521 gccttccctc cccttgcctc tgtcctttga acgctaacct ggacacagaa gctctcagca
 143581 tttaggagga ctttaattgca gctccattta atgtaagatc tcttgaagtg ggtcccaatc
 143641 ttaggcacaa agttcaggtg tacagaaaac aaaccatttc tctttgtctt tttttttttt

FIGURE 3 (continued)

143701	tgagatggag	tcttgcctctg	tcacccaggc	tggagtgcag	tggcgcaate	tccacctccc
143761	gggttcaagc	aattcttctg	cctcagcctc	ccgtgtagct	gggattacag	gtgtgcacca
143821	ctacgcctgg	ataatttttg	tatttttagt	ggagacaagg	tttcaccatg	ttgccaggct
143881	tgtctccaac	tectgacctc	aggtgatcca	cccgcctcag	cctcccaaag	tgttgggatt
143941	acaggtgtga	gccaccacac	ccagccaaca	aacaattttt	ctgtcacaga	gtttaattct
144001	atttgattcc	tatcctgcca	atgtggcaga	aacataatct	ctggtgattt	aaaattttacc
144061	cacatcctga	acctgggata	ttgtcaaagt	cccactgagc	tctgggagat	ggggtcttta
144121	ttgtcttttg	tcacacagg	gtctagaaga	tgccacctat	tgtcacttac	tttgtgtctt
144181	acacaactgc	agaccactat	tcaaaggcta	tatagtttgc	tctcactgct	gtaacaaatt
144241	atcacaata	taatggctta	acacaacaca	aacttatttc	tcacagtttc	tgtagaagt
144301	caacatgggt	cttaccagg	gggtggctgt	ctgggcttat	agctggagac	tctgggaaag
144361	aatcctcttc	caagctcggt	cagggtgctg	gcccagttca	gttctttgtg	ggtaaacttg
144421	ctaggtggca	gctagggta	ccctcagctc	cttaggttcc	ttctttgggt	cttgacatc
144481	atccaggagg	catcagatct	ttctcacgct	tgggaagatca	tggactcggc	cttctgcggc
144541	atctgactct	tccgccttcc	ttttctgctt	gattacatcg	ggcccacctg	gatgtgctgg
144601	gtcgcctccc	tattttaagg	tcagcttatt	agtaacctta	attccacctg	caaagccctt
144661	tcccagcaga	acctaaat	gtgtttgatt	gaccaaacag	ggagaaggga	gagtatcttt
144721	agagttttgc	ctacagcaaa	ggccactgtg	tgagcacatc	cctgaagggtg	tgcagggcag
144781	ctgccatcac	tcacctctca	gcccattcac	tagacagatg	ccctgtcaag	gtcatggctc
144841	ttttaaggct	gaaggtttgc	tgccctact	gcggctgtct	tgggaaagaa	ctggttctgt
144901	tctgaacct	gctgggatag	aacctctaga	aggcaaggct	ccgtctacct	caacacacac
144961	acaagccatt	tctctctggt	gggtctccag	ggctctttct	aggttgcagg	aaacaggacg
145021	atctgcccc	tggttccgac	ctgtaccccc	acctctgcac	tgtcattgct	ttccttcttc
145081	cccacaccac	caaggaaatc	accttctcat	caaacctccc	atatgccaaa	tattttggct
145141	agatctggag	tctgtacac	tctggagtgg	ctttgggctt	tttgaatccc	aggtccagtc
145201	ctgctttcct	gtctgtcaca	ttccacagct	gaggcaatga	gccaggaagt	cacctgcttg
145261	gaagttggag	ggggacaggg	agttggagaa	tggcaaagt	gggttaatac	tgcaaacctg
145321	ttttcctgcc	actctcctga	catgctctgt	tctttaaaat	gcccttgga	cctgggtccat
145381	cacaggccgc	atccttagca	actaagttgg	aagaaatggg	gctctttggc	cagcaatgtc
145441	ttcccgccat	gggtatatac	tgcaggtgcc	gggtgaggag	gactgcgggc	agctctgaag
145501	cctccacttt	tcttatggg	ttttttgttc	actctccagg	gcctaattca	gatgtcacct
145561	cccctgtgcg	gcttctccaa	cccttcagat	agatgtgatc	actccctccc	ctgagcccca
145621	gaacactttg	tccaatttcc	tgcacctct	gagagcgtgg	cacaggcccc	ctccactgtg
145681	taacaactca	cagccctctc	ctgcatcaga	agcccacccc	cttctctcgg	gggtgctctt
145741	ctttctagtc	atagtgtctt	ccctcagtag	tctatccctc	tggggactct	gaatatcttc
145801	ccttccccct	cagcaatccc	tagcacactt	gcagctgtga	gggtgcacc	tgaggacaga
145861	gcaggggcgg	gaaccccagt	cttagaggct	gttgtcatca	aagttcaaat	ggaagatcct
145921	ctgagaagga	tctgcaggga	gaccaattgc	cacccctagg	gaaggccggg	cttctgtggg
145981	atctcaagcc	ctgggacct	gaggcagctt	cccgtaggga	gcagccagaa	ggccctttcc
146041	ctacccccct	accacccaga	gaggcctccc	tgggatgccc	tccctgaac	cctagagctt
146101	catggggatt	gctatgtttg	cactgtgatg	tcatttcaag	gtcatggtga	tatgcgctac
146161	agctgagcaa	gattgttccc	agcatcagat	tggaaagtga	aagaaaggct	aagtcacaag
146221	aacccaagag	ctgggtgaat	gcacagctgt	gccctaggcc	caccagcaag	gaccacattt
146281	attaggctca	gcctcccaca	caaacgggtg	cagaaagtct	aagagaagaa	ggggaacaga
146341	ggaaggagg	gaaagtcctt	taaatacaac	tggtttcatt	gagcttctgc	accatgcagg
146401	ggcctgtggg	attgagaagg	agaatataat	cctagtcctt	gctctcagga	agcttatcat
146461	ctgtgtagag	ccaagagt	agcagctggg	tgaacaagaa	gtgggtgcaag	ggggaagagt
146521	taccacagat	ggtataacag	tttgcctcagg	ctgcctgaaa	caacagaaag	ttactgtctt
146581	tacagtctctg	gagaactggc	ctaggaaatc	aagatggcgg	cagagctggg	ttcttctgag
146641	ggttgtgagg	ggtctgctcc	aggcctccct	cggttgtgtg	atgtccatct	tctccctgtg
146701	tctctttaca	tcattcttccc	tctatgcag	tctgtctttt	cgccccacata	tccccctttt
146761	aaggacacca	gtcatatcgg	atgagggccc	atcctaata	cctcatttta	acttttttac

143701 143761 143821 143881 143941 144001 144061 144121 144181 144241 144301 144361 144421 144481 144541 144601 144661 144721 144781 144841 144901 144961 145021 145081 145141 145201 145261 145321 145381 145441 145501 145561 145621 145681 145741 145801 145861 145921 145981 146041 146101 146161 146221 146281 146341 146401 146461 146521 146581 146641 146701 146761

FIGURE 3 (continued)

146821 ctctataatg accctgtttt caaatataat cacactctga catactaggg gttagggtt
 146881 gacatgggtt ggctgtgtcc tcacccaaat ttcactctga gttgtagctc ctgtaattcc
 146941 cacatgtcat gggaggaacc cagtgggagg ttgttgaatc aggggtgggtg agtccttctc
 147001 gtgctgttct cgtgatagtg aataaatctc atgagatccg atgggttttat aaatgggagt
 147061 tccctgcac acattttctg tcttgccctg tgccatgtaa gacgttccct tcaccttcca
 147121 ccaagattgt gaggcctccc cagccacgtg gaactgtgag tccattaaac ctctttttct
 147181 ttataagtaa cctagtctgg ggtatgtctt tatcagcagt gtgaaaatga actaatcacg
 147241 ggctccaaca tacctttttt agagggacac aattcaaccc acaacagtgg ctttggggag
 147301 aaaggaagac ttgaaagagg agaatttctt cattcatcta tctatctatc tatttatcta
 147361 tctatctatc tatttatcta tttttgagat ggagtcttac tcttgctgcc agactggagt
 147421 gcatgggtgc catctcgact tactgcaacc tccacctcct gggttcaagt gatttctcta
 147481 cctcagcctc ccaagtagct gggattacag gcacccacca ccaggccggc taatttttgt
 147541 attttttagta gagacagggt tttaccatgt tggccaggct ggccttgaa ccttgacctc
 147601 aggtgatccg ccacactctg cctcccaaag tgctgggatt acaggtatga gccaccacac
 147661 ccggccagaa tttcctcatc taaaagggca ggttcccagg cagaggtaaa cactgggagg
 147721 ttttatactt tgtgattact gaataattcc tcaaggatgt ttttctagat ttgaggaaca
 147781 tcttcaggga cagaagatgc cacattgggc agggcttctt catgcaggcc ccaaccacag
 147841 gggcaacaga atcctgttcc ctgggagact gtgcccagcc atgagcatca gctgaagcca
 147901 caacctcaaa cattcctacc aaaagggaag ctagnetgtg ggatccacat gagggcaaag
 147961 tggagatgaa ttcagagggc aagaagcagc cagtagggca agagggagag aggaccttct
 148021 ttcctgacct accccacaca tacaatggac taaatatttg tgtccctta aaattcatga
 148081 gttgaaatcc taaaccccaa agtgatggca taaggagggtg ggaattttga agggtaattc
 148141 agtcatgagg gcagagccgt catgattagg atttagtgac cacagagagc tagctcacc
 148201 actctaccat gataggacac agcaagaagg ttccatctat gaaccagaaa ctgggcctgg
 148261 ccagacactg aatcttctct caccttgatc ttggacttcc cagactccag aactgtgaga
 148321 aataaatttc tgttgtttct aagacaccag tgtatggtat ttttgtttta gcagcccaga
 148381 cagactaaga caacacacaa acaggaaaaa tcagatacct cctgctgcct agctagatgg
 148441 cttaagagtc caggacatag acagaggtag gggcaagaag gctgctgggc ctgggcttta
 148501 cgttcaagaa aggactttta gacttttgat gttattttcca actgatgttt gttatgggccc
 148561 aagttgtgtc cctccaaaat tcatatgttg aagtcctaac cccagcaac tcagaatctg
 148621 actgaatttg gaggataggg ttaagacgtc agtcagttaa aaagagggtg tgagggtagg
 148681 tcttaatcca ataagggtgt cctataaga agaggaaaat tggcacagac acacacagag
 148741 agaagaccac atgaacacac aaggagaaga tggcatctgc aagccaagga gacaggcctc
 148801 agaaaccaac cctgccaaca ccttgatccc tgacttccag cctccaggac tgcaagacaa
 148861 taaatgtctg tttaagccac tggctctgca gtagtgtgtt atggcagccc tagcaacta
 148921 gtataaagtt ctatccatat gcccctggga tgtgtttcta agcattcatt tttaaaatgt
 148981 aacatttctt aaaaatatac tgtaacattt taacttgttt tggcatttct gctttttttt
 149041 tttttcatgg gacagtcttg ctcgctcgcc caggctggag tgcggtggca caatcttggc
 149101 tctctgcctc cggggttcaa gcgattctcc tgcctaagcc tctgagtag tggggattac
 149161 aggcgtgcac caccaggccc ggctaattta tatatatata tatattttta gcagagacag
 149221 gtttttacca tgttgccag gctggctctg aactcctgcc ctcaagtgat ccacctgct
 149281 tggcctccca aagtactggg attacaggca tgagccactg ggcctggctg gcatttctgc
 149341 attttttaata ccttggaac aaccaccacc cctcaaatg acagtggctc atctttgtca
 149401 attatacctt aataaagctg gaggaaaatt aataaaatgg actacaaaag aagaagaaga
 149461 agaagaagaa gaaaagaaaa gaaagtagcc caagtctctt gtacctccca gatgccccag
 149521 tgaagggcct cagctgtgat gagaaaaccc agcagcccaa ttcctggcaa ctctcctggg
 149581 atctggaatg atgggtgtgc tgggcacagc ctctctatct ggcccagag ccagctggca
 149641 ccattggagt gaggagaggg ctctgagctt tcccagtagg ctggcaacct cccaggctcc
 149701 ctccccagc cctataaaa ccatctggaa aatgaaaata ataccttctg ctctctacca
 149761 agtccaggg accctgtgag gaacaggag atactatccc catacccac acattcctgg
 149821 aggaggttgc cctggaataa gctattgccc cgctcttcc accccaagtg gcagaaacga
 149881 gggccactca gtgctctgtc cagctgctct tgcttccct caggagccac ttctgcttcc

FIGURE 3 (continued)

149941	atcccacctg	attggagtg	gcttcccaca	ggcccccgct	ccgcagctcc	tcagtgtctct
150001	cctcctcctc	cctgtcctcc	cgagcccgagc	ccagtctgag	gtccatcccc	ctgtgagggg
150061	agctgagcag	tgctgcaaac	tcagtgtctcc	tgagtaccct	ggggatttgc	tgaactgcac
150121	attctcattc	tgtaaaccgg	agctgagcct	ctgcacgtct	aacctgtctcc	ctggcaatgc
150181	tgctgttact	gagcagagt	gaaaagtgt	agacaataca	ttggggggaa	atttcagtct
150241	caaatgcatt	ggagcagaaa	ccagaactcc	ctgtcaagct	gctctgtggg	tttttgaagc
150301	gaagtgtgtt	gctcttcact	ggctgtctctg	agctgtctcag	agcggggggac	agaagctggg
150361	tctacccgag	catctgtcca	gccacatccc	ctcactcttc	aggggtggcac	tgggcacaca
150421	gccccagagt	caaggtggca	tttagctggg	ccttcagtec	ggcaccagca	agtgtctctt
150481	aacttggggg	ccttggagtc	cataggtggg	cacagctcaa	tttggggatg	tacctgagaa
150541	aaatgcttcc	cagatgggct	tctctgcccc	atccctctct	ccaccggggc	tggccagacc
150601	ccagggtgaa	ttgttcta	tccttgca	ttttcctggc	aggggtctcca	ggctcatgaa
150661	atctgcctct	tgccaaaggc	agaggatcca	ctggcagcag	ggagcactgg	ctgcagtcag
150721	gcaggtgcaa	tcatttttta	atgacatctt	ttccccctta	tcaaaattgt	gcaattcact
150781	ttagaatatt	tagaaaatat	tggaaaatgt	aaagaaggaa	gtaatcctgc	aatcctacaa
150841	ctcagaaatg	atgtttcagc	acttttgaaa	atatecttcc	aatctttcac	atgcacaggt
150901	gtggctctgta	tacggcactg	gagatcccca	gcaccaaaaa	gttaacactg	taggaaaact
150961	atztatccat	gtcagttatt	ctttgaaagt	atgatgtagg	ggaaaaaaaa	ggggggatca
151021	gactgttact	gtgttgtaac	cgagcgagtt	atacagaaac	gccacactct	gagacgaatt
151081	gaggagtcct	ttattagcca	gcgaccgaga	gacggctagt	gctcaaaatt	ctctcgcccc
151141	tgaagaagg	gctagatttt	gttttatact	ttggtttaga	gaggggaggg	ggagcctagc
151201	tgtagcagtc	ttacagaagt	aaaacaggca	aaagaagtta	aaaagacaaa	tggttacagg
151261	aaagcaaaca	gttccagggt	caggggcttt	aatccatca	caaggtgata	gacgctgggc
151321	tttgggtgct	atcaaccaga	caaaaacaca	ggggcttagg	gtaatatcaa	ctggacaaat
151381	tcctgggaac	tgccggacata	gcttgccaca	gcatgttatc	agttaattgc	attctttgat
151441	gtgctgggag	tcagcttgca	caagttaatt	ccttgaggaa	gggggtgggt	aaggagccct
151501	tgatgtcttg	caaataagg	agccaaatgg	agtccgttca	ggtttctcag	ctaagagaga
151561	gtcaatcagg	ttaatacaag	ttagggtatc	acaagtgtgt	ctatttagaa	aaggaagact
151621	taagaaactc	cattttgatc	tgtaccctga	acaatggttt	tgccttgaga	tgctgttaat
151681	ctgtaacttt	tctccagcct	tgtgtctaca	gaaacatgtg	ttgtatggaa	ttaaggttta
151741	agggatctag	ggctgtgcag	gatgtgcctt	gttaacaata	tgtttacagg	cagtatgctt
151801	ggtaaaagtc	atcgccattc	tccattctcg	attaaccagg	ggcacgatgc	actgcggaaa
151861	gccgcaggga	cctctgcccc	ggaaaaccgg	gtattgtcca	aagttcctcc	ccactgagac
151921	agcctgagat	atgtcctcat	gggatgggaa	agacctgacc	gtcccccagc	ccgacaccgg
151981	tgaagggtct	gtgctgagga	gaattagtaa	aagaggaagg	cctctgtctc	ataccgaacg
152041	gaatgtctcg	gtataaaacc	cgattgtaga	aaaccacact	ggcaggaggc	gagatatgct
152101	ggcggaatt	attctttatt	ctgttattct	ttactacact	gagatgtttg	ggtggagaga
152161	agtataaaatc	tggcctacgt	gcacatccag	gcatagtacc	ttcccttgaa	cttatttgtg
152221	acacacattc	ctttgtcac	gtttcttgc	tgaccttctc	cccactatca	ccctgttctc
152281	ctgccgcttc	ctcttgctga	gatagtga	atagtaatca	ataaatactg	agggaactca
152341	gagaccggtg	ctggtgcagg	tctccgtat	gctgagcgcc	agtctgctgg	gccactggtt
152401	ctttctctat	actttgtctc	tgtgtcttac	ttcttttctc	agtctctcgt	cccactgac
152461	gagaaatacc	cacaggtgtg	gaggggcaaa	ccacccttc	atgtgatgtt	taggccgggt
152521	gcaatagccc	gcgctgtaa	tcccagcact	ttgggaggcc	gaggtaggag	gttcacttga
152581	accaggagt	tcaagaccag	cctgggcaac	ataatgagac	ctcatttcta	aaaaataaat
152641	aaataaataa	aaattgtttt	aattagctgg	gcatgggtgt	gcacacctgt	agtcacaggt
152701	gctcgagagg	ctgaggtggg	agaatcagtt	cagcccagga	gttcaaggct	gcagtgcagc
152761	gtgatcgcac	cactgcactc	cagcctggac	aataaagtga	gaccgtgtct	caaaaatagt
152821	atgatttttt	taatagctgc	ataatagtct	cccctatgga	tatttttatt	gtttacttaa
152881	tgcttgccct	atttggggcc	attgaagtgt	tttaattctt	tttccaatat	aaataatttt
152941	attctggcca	tgtttttatt	gaaatctcta	accctataat	ctcttttttt	ccttagaata
153001	ggtttccagg	attgggat	tggaaacaaa	ggttaa	att	ctgtagat

FIGURE 3 (continued)

153061 gttgttgaat tgtttccaga aagcttcaac aaattcatcc cctctagcca tagtgccctgt
 153121 ttcaagaaat gatcagcatt gtccattatc ttcttttatt ttttcccaat ttggtaggta
 153181 aaactagtat cttttctagt ctgcattctg cttgactctc gtgtggctga acattttttt
 153241 ctgagtggca tagccattca tgtttcttct gtgacgggtc tggacacatc ctcagtgtctc
 153301 tcatttttcag gagagcaagg atgggggaacg aggggatatg cattgtatta gtttgttttc
 153361 atgctgctga taaagacata ccagagactg ggaagaaaaa gaggtttaat tggacttaca
 153421 gttccacatg gctggggagg cctcagaatc atggcaggag gtgaaaggca cttcttacat
 153481 ggcagcagca agagaaaaag agggagaagc aaaagcagaa aacctgata aacctatcag
 153541 ctctcatgag acttattcac tatcacaaga atagcacgag aaagaccggc ccccatgatt
 153601 caattacctc accctggccc cctcccacaa catgtgggaa ttctgggaga tacaattcaa
 153661 gttgagattt ggggtggggac acagccaaac tatatcatgc atcaccacct gatggcacc
 153721 acccataacc tctgccatgc tgtgtgcccc cccaccatg cctgtgggag aggtcccca
 153781 ggcctggtgc ctttgcctgc agactctggg tacttccatt cacactccca tctctgggtg
 153841 tcctcaagat aacctgatgt tcccaggatc cttccctcaa ttaacaatga cctgccttag
 153901 ccccatctct tcagcaccgt ctccatgcta agttacaagg agtgggcccc aacaaacaac
 153961 tgaaagctaa acgtcttcac ctaaccaaaa tgttgccgt ctgtattagt ctgttttcat
 154021 actgctataa agactacctg agactgggta atttataaag aaaggagggt taattgactc
 154081 acagtctctg atggctgggg aggcctcagg aaacttaca tcatggcaga aggtgaagg
 154141 gaagcaaggc acatcttaca aggcagcaga agagaaaag catgtagaag aaactgccac
 154201 tcttaaatca tcagatcacg gctgggtgca gtggctcaca cctataatcc cagcactttg
 154261 ggagggttag gcaggcagat cacttgagg caggagtctg agaccagcct ggccaacatg
 154321 gtaaaaacccc atcaccacta aaaatacaaa aattagctca ccatggtggc acatgcctgt
 154381 aaccccagct acttgggagg ctgaggcaag agaactcgctt gacatctggg aggtggagg
 154441 tgcagtgagc caagatcatg ccactgtact ccagcctggg caacagagt ggactccatc
 154501 tcaaaaaaaa aaaaaaaaaa ggtcagatct tgtgagaact cctcaccat cacaagaaca
 154561 gcattgggga aaccgccttc atgatccaat cactcccacc aggtccctcc cacaacatgg
 154621 ggggattaca atttgagatg agatttgggt ggggacacag ggccaaacca tatcaccacc
 154681 cacaaaagct ttttgacaaa taactctgac taggaattgt aagaaatgtt tttaaatgag
 154741 taaggtggaa gcaaaccatta tccccatttt atagacaaga aatgtgtgtc tctggatctg
 154801 tgacactcca taaaccaggg aaaaggcaga gacaatgact gattttctgc cgcaccaatcc
 154861 agttgcccac cctcctggc tcaatgccag gacttccctg tctttgatta gggaaagtgg
 154921 agccaccac tccctacatg caactgttac acaccagtg tcccagaaat gacattcaac
 154981 ttcactatag cgactgcttt tactgacatc atttttagca gacgttttac tataaaaatg
 155041 ggtggggaga aataaagcag ataaactgct gccaggacc atcactgcta ggtgaaact
 155101 gggggcacac ggtatagctc aaatgcacc caggtccagc ccaagccttg ctcaaaaccc
 155161 acccaggaac cagacctatc atccaagggt gtctctccaa tgaccttagc aggttcagaa
 155221 taacctctta atattctca tttactgtag ttgcttatta tgaaccacc aactattaat
 155281 tcaatctttt ttgaattctc agttttcagt atatttctct tcaggetgtg gtacatatca
 155341 caacatatag taattatttg ctattttctg cttccctgtc tagactttga gtaagttgag
 155401 ggtagaattt gttctatttc ataactctag aatttgacaa atagcaggta ttcttaacca
 155461 taattttgtt gaaggaagga atcaatgaat aaaaatttcc tgagtttact gtttactgca
 155521 aaaagactgt atgctgtttt acgttttctt cttttaagg ctaacatcaa tatgttgatg
 155581 tttggtaaat ataatttcaa tcccagttgc atctctgagt ccaggcaaga gtactacaaa
 155641 aagtataaat agaggtcaag tgcagttgac ctctgcaagc aagaccactt agaactcttc
 155701 aatggctctt tgacaaacct tcagtgggat ttctgtcaaa gctgacaatg gataaaatta
 155761 tagaaaggag ggaaagcctt gataaggagt ccttaatgag ttcgtcacta agttaattca
 155821 acattgaaag ggatagaaga tgttaattcc acacacacgt gaaagaaatc aacaatcagg
 155881 cctcatctga gagaaccatg atggggaagg ctggggctga tggatgaggg gtgtgaggca
 155941 gggcagaaaag cctccacgtt gctgcagcaa tgcaaaaata ggcaccttgc cgtaggcctc
 156001 tctggcactc catcttgtct ctcttccctg gagaaaaggc aagctgtatt caatcatctt
 156061 ttcaatgcta aaaccaggct ttcctgtcgg agttggggcc agagatgttt ccatccctc
 156121 ttgcaaaaag ggtattctta agaggcctta agtcttcagc attgatagtt tctgggaaca

FIGURE 3 (continued)

156181 aaatagaaat caaaatctca ccttgtgttc ccttctctt cctggacaga gaatgggaca
 156241 ggcccaggcc atccagatca ctatgaacct tatcagaaac ttcagtccat tttctccgtt
 156301 ccttccctg ggacttgcat gtataatct ccatacccct ccttccccac tctccaggct
 156361 tagtgggtga ggcagagagt gagagccagg cttacctgcc ttttctctc agtgggaaga
 156421 agctcagtaa ctgagctcag acgctagtgg catacctacc aagaggatga cataaatgcc
 156481 tcctgtggcc ctgagatagg cagagctctg ctggcagccc aaccatatgt tcaactgttc
 156541 attaacaaac atccacagag gcaggctgct ctggcctgga gggggatgtc ctacactaga
 156601 cgactcaggt tcatagagcc aggcctcatt ccacccccac tggctcaagt gactttcttg
 156661 tgaccagaaa ctggagagct cttttttttt ttttttagacg gggctctgct ctctcgccca
 156721 ggetggagta tactgacaca atctcggctc actgcaacct ctgactccca ggttcaactg
 156781 attctcctgc ctgagctcc caagtagctg ggattacagg cgagtgccac caggcccat
 156841 taattttttg tgttttttag tagagacggg gtttcgccat gttggccagg ctggctcaa
 156901 actcccgatc tcaggcgatc cgcccgctc agcctcccaa agtgctggga ttacagggtg
 156961 gagccaccat gcctggccca gagctcttaa ctacaatgac tatatgcaga agaacaaact
 157021 aacacggaag atggctagga actgcgtaag ccaagactct gcagtaagac acacttgagt
 157081 tctggctctc actctgccgt ttactcacag tccaactgca gatgggacct cacctctctg
 157141 agcctcagtt tcctcatttg taaaataggc aaatattggc acctacctca tagaattagt
 157201 gcgaggetta actgagggtga tctaggcaaa gcacttagct tggtagctag cacatattaa
 157261 gtgctcaata ataggtgatg gtgatgatgt aagttggaca caagagaaaa ggacacatac
 157321 taactgataa tcacacagag ccactgactg gatttggtat cttctctga cattcagctt
 157381 ttcttaccat ctgtcagcat gccacactcc ttcagccttg aattatatgc tgccttggtg
 157441 ttttgcctct ataaaaacaaa tagaatgtac tagtcttctt gtggctactg aaaaaaaaaa
 157501 aaaaaaagac cacaaaccag tgatttacia cacagaaagt tactctctca cagtcttgaa
 157561 gaccagaagt ctgaaagtac tatgttgtea gggctgtgct cctccaaag gatctagggg
 157621 gtgatctatt acttacttct tccagcttg ggtggctgtc agcatgcctt ggcttgtagc
 157681 tgcaccactc caatttctac ctagtctct tatcatctca tctgtgtctg ttttctctc
 157741 agtgtgtctc ttataaaaaa acttgctcat ccagacatgg tggctcatgc ctgtaatccc
 157801 agcatgttg gaggccgagg tgggcagatc acttgaggtc aggggttgga gaccagcctg
 157861 gtcaacatgg tgaaacccca tctctactaa aaatacaaaa attagccagg cgtgggtggc
 157921 ggctcctgta attgcagcta ctcaggaggt ggaggcaaga gaattgctg aaactgggag
 157981 gcgaggttg caatgaactg agatcacacc attgcactcc agcctgggtg acagagcaag
 158041 actccacctc aaaaaaaaaa taataataat aacttggtc atccagggtg atctcctcaa
 158101 atcaagatcc ctaatttcat tacgtctgca aagttaacat ttacagttct ggaaattagg
 158161 atgtagacgt ctttttgga accatctatc ttagactgtt caggcaacta taacaaaaata
 158221 ccagatgctg ggtagcttac aaacaacaaa catttatttc tcacagttct ggaggcttg
 158281 aagtccaaga tcaaggcact ggaagctgta gtgtctggg aggtctttta actatgtcct
 158341 cattgcggaa ggggccaggg atctctcttc cttttataag gcttctagtc ttttttttt
 158401 ctttctttct tttgagacag ggtctcactc tgccccccag gatggagtac agtggcacia
 158461 ttttggctag ctgaaacctc tgccctccag gctcaagtga tccctccacc tcagcctcct
 158521 gagtagctgg gactacaggc gcagccacc atgtccagct aatttttttt ttttttttt
 158581 tttgtagaga tggggttttg ccagtgtgac aaggctgcca ggtgggtctc gcaactcctg
 158641 cctcaagcaa tccaccacc tcggcctccc aaagtgttg cattataggt atgagccact
 158701 gcaccagct tcattcatga aggttctatc ttcatgaact aatcatctcc caaataccat
 158761 caccctgggg gctgggattt cagcatataa attttggga gatataaata ttcagtccat
 158821 tacaccaaca tttggtccac tacttgaggt acctaaagac atggacttta gaagtagact
 158881 gacctggatt ccaataccag cccaccatc actcactagt tggatgacct tgattcagtt
 158941 atttaatatc tttgaacctc agcttctgga aaagggccaa taatgccaat aatgctatgt
 159001 cccgggggtt tttgaaagaa ttaaataagc taatatgtta aaagtactgg ataattggta
 159061 gctctcatta ctagtggtag gtttaccaca ctagtctaca agctcttaag agctggaggt
 159121 atctctgctt ccttcacaag tctagcacia gtctgcaaac agtctatcct tagtgaaggt
 159181 ggggtgacaa actggctgaa ccagtggcct agacagccaa tataccaat tatgtaagat
 159241 tccacaggga tctaaaggag cgaattagag gcaccaata gtgaccccaa tctaagcagt

FIGURE 3 (continued)

159301 gcaggggatca gctgggtggg tttgtcagca gagaacaggg ccaccagggc aggcacatag
 159361 aactaactgc actcactgca ctgttggttaa ctattctttg aatccctcca catgacgcca
 159421 ttcctacaga tggaaagtca gctacactgg agaagttcca gaaattcata aatagattat
 159481 gatcccaaat ccagagaggg aggacttttc cagatggcaa ctgggaattt acctaatga
 159541 tttcccatc ccagaaggga aagctgttct ggtatattac aaacattaca gcacatctga
 159601 ataaccacaga gagcttggtt aaatgcacat ttttgggctt ctaccaggct ggttaaaca
 159661 agcttcaaca gagtggggat aggaaccaac cattttaaat aacccctttt ggtaattctg
 159721 gttcaacat agcaatcaaa ttatagtcca acctaggtag gggcttgcta cctaggagtc
 159781 aatatgtaat actggaaaga gtaagagttt ggaaactaaa cagaaatagg gtccaatcct
 159841 gggctgtcca cataatagct gtgggacctt gggcaagtta cttcattttt ttggatctca
 159901 acttctctt ctataaagg ggggtctatc ctgtcagggt agtgggtgta attcaatgat
 159961 aattatgtaa agtgctgct catagtagat tgaagcagag actgctacta ttcaccaatc
 160021 ctttcttct tcttggtcat acacaactag actatatttc ccagcaccct ttgcagccag
 160081 gcacggccac actagttctc accaagggga tatggttcta agttatagta cctattcttg
 160141 gcaaaggctt aaggaacaga tatgctctc ccagggtttt tttgtctta catcacttgg
 160201 atgcaggtga caggttctag ggaactgggg atctacaaca tgggaaggagc ctgtatgctt
 160261 gagttactag gtaggggaaa gctatccatc aactagaatg cctgcttgg actcttctgc
 160321 aaacgagaaa taagctcata taccatatta ggttataata tagttgctt aaagaaatac
 160381 ccatggccag gctgggggc ttacacctcc cagcactttg ggaggctgag gcaggaggat
 160441 cacttgaggc caggagtttg agaccagcct ggccaacatg gtgaaacccc atctctactg
 160501 aaaatacaaa aaattagcca ggtgtggggg caggcgctg taatcccagc tttcgggtg
 160561 gctgaggcac aagaatcgct tgaacccagg aggcagaggt tgcgtgagcc gaggtttcagg
 160621 ctgcactcca gcctggggga cagagtgaaga ctctgtctca aaaaaagaaa agaaatacct
 160681 gcattgctat aaagaaatac ctgagacttt aatttataaa gaaaggagtt ttggaggctt
 160741 tttctttttt ttgagacaga atttctctt tgttgctccag gctggagtgc aatggcgcca
 160801 tcttgactca ctgcaacctc cgctcccgag gttccagtga ttctctgct tcagcctcct
 160861 gagtagctgg gactataggc atgtgccacc acacctggct aattttatat ttttagtaga
 160921 gatgggggtt ctccatgttg gtcaggctgg tcccgaactc ccaacctcag gtgatccgcc
 160981 cactttggcc tcccaaagta ctgggattac aggcagagc caacgcaccc agccaagaaa
 161041 ggagtgtgtt tgtttgtctg tttttccaag aaaggagttt taactggctc atgattctac
 161101 aggctgcaca agcaagggtg tggcatctgc tcagtttctg ggggtggccta agggagcttt
 161161 tacttaaagc cagagcaagc atctcacatg gcagagtga atcaagagtg agagtgtgtg
 161221 tgggtgtgag gaatctcagg atgacctccc tgagattgct gtcccctagt tattcaca
 161281 aactcactga ctatcacaag gtcagcatca aggcgtgagg catccacccc catgacccaa
 161341 acgcaggcc ccacctccaa cactgaggat tacatctcga catgagattt ggaggggcca
 161401 tctaaactat atcatacact tttgggatct attttacaac taacctatag tcagtgtgtt
 161461 aatccatttt gcattgctat taagaaatac ctgagactgg gtaatttatt ttaaaaagag
 161521 gtttattttg cttatgggt ctgcaggctg tacaacctg gcaccagcat ctgcttctgg
 161581 tgaggactca agaaactacc aatcatggca gaagcaggtg tgtcacatgg cgacagagag
 161641 agaaagagag ggggaggaga tgccaggctc ttttaacaa ctagctctca tgtgaactta
 161701 atagagttag aacccactca ttacctcggg gagggcacia aaccattcat gagggatctg
 161761 ccccaacgac ccagacacct cccaccaggc cccatcttca accctgggaa tcacatttca
 161821 acctgagatt tggaggggac acacatccaa accatatacag tcaggaaatg ttcacccct
 161881 ttctccacct ccaaataaca attacacagt acccagcatc tgtgcaaaca ttttattcta
 161941 ttcacaattc tcatatggtg taaattgcaa tctctctgta gtaggacaaa ttctagggat
 162001 gacctctgta ttagtcaggc ttctctagag ggacagaact aatagtatat atatatatat
 162061 aatatgagtt tattaaatat tagctcacac gatcacaacg tcccacaata ggccatctgc
 162121 aggcgatct gatgtccaat gtttgagggc aggaagcatc cagcacggga gaaagatgta
 162181 gagtgggagg ctgaccccat ctttcttttc acatttttct gctgcttat attctagcag
 162241 tgctggcagc tgattagact gtgcccaccc agattaaagag tgggtctgcc tttccagcc
 162301 cactgactca aatgttaatc ctttttgga atacctcac agacacaccc aagatcaatc
 162361 ctttcaatcc aatcaagttg acactcagta ttaaccatca taacctcctt gagaaacaca

FIGURE 3 (continued)

```

162421 aatctaggta ctctgtgaa gggattctgc aaatgtaatt aaagtttcaa gtcagtcaac
162481 cttaaaatac agagatgatac tgggtgatcc tgatctaatac acaagagccc ttacacaac
162541 agaaggggaa ttcggagaga tttgaagtat gaggaagact caagtgccat tgctgcttga
162601 agatggcagc accacgtgag aaggaatacc tcaaggaact gaaagtggcc cttgcctaac
162661 agtcagcaag gaaagaggaa cctcagacct acagctgtaa ggaactggat tcagccaata
162721 attggaatga, acttggaagc agatttttct cagtgcctcc aggtaaaagc tctgcaacca
162781 ataccttgat ttccagccct gtgctattcc tgagcataga aatcaggcaa gcctgcctgg
162841 acttctgact acagaactgt ccactaataa atttatgttg ttaaatttgt ggtgatttgt
162901 cacagcagca ataaaaaac taatacattc tcttaatctg ttttgtcacc aatttttctt
162961 tgagacggag tctcactctc tttcccagcc tggagtgcag tgggtgtgac atagcccatt
163021 gtaacctcaa aatcgtgggc tcaagcagtt cttccacctc aatctctcga gtagctagga
163081 ctacaggcac atgccaccat acttggtctga tttttttaa aaaattattt tttatgtaga
163141 gatggggtct cactatgttg cccaggctgg tctcaaactc ctggcttgaa gagatccttc
163201 tatctcagct gggaggatcc caggatccca aagcgtctgg attacaggcg tgagcctcca
163261 tgcctagctt cctcacttat tttttattaa taaaaagtga catggggaga tgggtggaagt
163321 tagagtgtg atactgtagt atgctcttag ctttacattt gctcagttcc ttgtgctgag
163381 ttgtctgtta gggagcttcc tgcccttata gtgagaatgt gacatagtct gggcatcagc
163441 tgcagctctt tgaacagaga tgatccagct ccccatctca ccagccccc aatccaaaac
163501 ttaaaagcgg agctgctgtc aaggaaaaca aagttaagca aaatgacttc aaagcccaat
163561 gtgctcacct tcaactctcc agtgggtcct tgcacctgag aacgtgcagg gtccatcagt
163621 attgacctcc ctttccacc agccctggaa gttatggaag gggaaggtag cttattctga
163681 tatcgtgtcc tgtaataatg cttcctggcc tggcacatat atccttgttt ctgtgctctt
163741 tgttctaaaa catcctccct ttccgaaagc tgaaactgtt cctgcacaca ttatgcactt
163801 aaccaggtaa atttcagaag attttaaaaa gtttcccagt gaaggaagga gagagaggta
163861 ttgtcctgag atactgaata tgcggatggc cagactagat atcaaaatag aaccctgacc
163921 cacaatctgt ggcaactagc ctgggaagcc aacatattat ctgcagtaac caatccagga
163981 agcaaagcaa taacccctt agcaatggac cccaaatggc caggactcga ttaataaact
164041 gacagctccc ataatttttg cccctacctc caactttgga ctaaccagag aaagcccaat
164101 gggcaccccc aaccaatcac atagcatgcc gcacttctag ctggcccact tgcagcttcc
164161 ccgtgccaac agtctcaggg cagccccaaa gtgttccctt ttttctacca caaggctttt
164221 ccacacctct gcctgccttt aagtgtctgc caaacacaag tgatgggtgc tgactacctt
164281 gcaacctctc tatagtaggc tttgtttgtt cttatttggg tgggtctcat gtaattccac
164341 agtcttgtt tttcaggag atttagggt taaatacaag gaaatttcat gtaaggatgc
164401 aggagtgtt catggaacct caagctcagg aaagctgcac agccatggga agacctaga
164461 gccggagtct ggaaaagcaa tccgagcttg gatcttagaa atcttgtctt cttgcaaac
164521 gggttctctg gtccaaatgg ccaaaaacat gacctggac agggcctgtg cttatctcgt
164581 cacctgcaga gaggcaactc tctgtacgtc ctgattccaa gttcctggag aaggacacag
164641 actgaaccac cttgggtcag gcaccatcct tgaccaattt actaacagtg cccaactccc
164701 acccagggtg gggagtagtt gcaggtagtc ttgtttatga acatggcaat cagaagccca
164761 tccctgtcac tgtgtggagg ggaggggaga gaagagggat ggttccaacc aaaaaaggta
164821 gggggatgga catcccaata ggggtccact ccattcctga tggcacagtg agacagttgt
164881 catgtgtcac gtgctagact cttgactctg tgctctccag tactgtctac tgaccaacat
164941 ggtctagtga gcgatttttc ttgtgaaggc atccatccat tcattcattc atatagcaaa
165001 caattgtaca tcacaacctt atgctagggtg ctaggatatac aatgataaaa caaacacaaa
165061 aacaaaaacc acaatctcta cctcaatgt gagagatac caccacataa acgaacaatt
165121 acaatactgt gaaacatgtt atgctcaatc tatggcctaa atcagatgag aggctgggca
165181 gaggatcagg ctgccaagaa atgcttccca gagggcatgc tgcccgaat gaaccttgaa
165241 aatcaggggag cttgatagaa atagggaag agagagtgtt tcaggcagaa gcaaggttca
165301 ctgtcaagga aaggcatttc aggaaccaa aagtagtata tgtttgacat gagctatatt
165361 ggagttagag tactgggagg taggctagaa aggggaacag agactagata tgaaggaaact
165421 tgaaagccgt aagtatatga agaaggcaat gggctttcta cacaggaatg acctgaaga
165481 cttgatttgc attattgaaa gctcaccatg gctggaatgg attggggacg tccgatgatg

```

FIGURE 3 (continued)

```

165541 ggàagactca gctgggcagt tgctgcatta actgtggagt tataatgggtg acctacgaga
165601 gcagcttttg atacggagaa gagcaaactg gtttaagaaa cgtcatcacc tgggtcaaga
165661 aaaggacatg cagtgggttg ggtagggagg aaaatagatg taaataaagt tattagttga
165721 aaaagaaaag caagatcgag agagaaatta attctattgc catctattca tgagaatcac
165781 aaggctgaat caaaagcctt cctgcaaacc tagactcacg ctgggttcagt tcagagactc
165841 tatcagaaag atgaggagct catgagtcac ccatcaatgt gatcttgtga tttttcttgt
165901 gaccacaaga caaaggaaga gaagagtact ttggagtcac tatgatgaaa attcagttga
165961 atacactgga aagtcaaaac gagaggagaa ggaggaaccg aaaatctgat tcagttctga
166021 ccaccaagta gaattgggac agaaacaatt aagtaggcac agatccaatt tggattataa
166081 aaagctgggt catcaggaag gccactataa aaccagaagc aaacgaagag tcaattaagt
166141 acaaaagttt ttactatgac tatgcagtga ggtccaaact gtactaaatt tgaagttccc
166201 tgccaaagag aaatgtaagc ttccctgggt gtataagtca gaatttcatt acatcagcca
166261 gataaccaca aaagaatata tcttttagtg ctgatgctt ctaagccttt ctccacccaa
166321 ctaaccaaca ttcacttact gatttactta tttctttaac aaacacactc catttcattg
166381 ccacattctt tcaaagctga caggttgaga tatactctaa acacaaaatc tccaacatac
166441 attttcttct tcaatgttgt gagatgtatt tttctaaaac actgttctgc acatactacc
166501 attccaatat taaaaacaa ttagttatcc actgcctttt ttgtacaaat gaaattcata
166561 aattttaatt tgggtaccaa aaaatttttt atcaaaattt ttgcttattt gtttatataa
166621 aaatggagac agggctctac tatgttgccc aggctggcct caaactccta agctcaagtg
166681 atcttcccac cttgacctcc caaagtgata ggattacagg catgcgatag caagcctggg
166741 ataattttaa tttttaatta aaaattgtta atttgtctac aaaataaata tatactcatc
166801 atcaaaaact ttcaaagaag aagattaaaa tcaccataat tccaacaccc agacacaatc
166861 acaatcactt ctgtaagtta ggatatactg acagcctatg tgacagggaa aaaactaagt
166921 tgtaagaatt ttttaaaaac ctccatttcc ccattacagt agattttatt actcaaaata
166981 tttgctgccc caccctgggg aagataatac tccccactt cattgcatca gccttagaga
167041 tgtggtttga ggtgtccctt cttgtgggag gattacatat tctcatctcc ttgacctcaa
167101 gagtggccat gagacttgct ttgaccaatg caatgataac agaagtgatg tgtgccactt
167161 cgaagcagaa gctctgattc atcatatggt tctactatgt tcgttctctc ttccatgaaa
167221 ccagcaatat cccaaatata gactgctggt cccaggatgg aaaacttaga gcaaagctac
167281 cggtagccca caatgtgagc aagaactgaa ctttagtcac tgtaagccac tgagggtttt
167341 ggagttgctt gttaccacag cataacttag ccgacactga ctgataccac ctacctccaa
167401 aatgtcatct gagttttctt tatgtctgaa gagagccttt atgcattgaa ataaatactc
167461 cctttaattt caacttatat tttatatatt taaattatat gttttaaaac ttaattttga
167521 agacttttaa cttgtgttaa tttataaatc agttttgtta atattttatt atctactttt
167581 atttggtttt gatgaatgcc caactggctt gtaaatttga taaggctact ccaaattatt
167641 atcaaaactt cagaattaag ttttagacat ttcaaactac aatctaattt taattgattt
167701 ctcaaggaaa aaaacaacaa agcagactca catttctata ggcaaaatct taataaacac
167761 tgaaaacata ctgaacttaa aaagttaaac cttacaaatt taataaatta taaatttaaa
167821 gatttaacaa tttaaacatt tgaacattat ttcaaactta gttatcaaca tcttataaat
167881 ttttactaat attttgagtc taatgaatca gtctctttac ttaccttaaa aagcagaaaa
167941 atatacacia aatactataa tggttacaaa acttattttc agataaaaatt tatgactaga
168001 cataacttag cttgtcttcc aagggtcttt gaaagtatgt ttgttttctg gcaataagaa
168061 gatatttcca gactcatctt gatatttctt gccgtaaaac atgcaatgaa tttttctcca
168121 gggagcccag tgccctcagg gtcttctggc tggaaatgcag attagatgga ttggcaaagc
168181 agctgctggg gccacaaggg gaaaccagaa atccacagta atctttgacc tgacgtcctt
168241 gagctgctga accaacatcc caggttttta agtccctgtg gtccatttgt caaatgcaat
168301 tccttactga tataatgggt atacaaataa agaagcccag agaaagcact gcatatggaa
168361 aggaaagatt gacctaaagg ggaagatctt gtggggaggg gaggcagtga agaaaagagg
168421 aggcaggaaa gggaaactgg gagagagggg agatctggca gtttctgtga aagcaaatta
168481 gtaaggattt taagaaaagt ttgcctttat tccattgcca taatggggat tagaacagta
168541 acatccatag gatcattgtg agaattatgc caagcacaca ttaagtgttc aataaacatt
168601 ggctatcatt attattttat tatgtctggg ctccagaatg gattagagtt gcagactgga

```


FIGURE 3 (continued)

171781	agccttcctt	tcaccgcttg	aaatgctcct	tcttgaacc	cagaaggcat	atggagaaag
171841	atacgtagaa	gagaaccaag	gccagccat	tctggcctag	ttgagcattt	ctgccagccc
171901	ctagctttca	agccagccag	ttgaagccgc	ggacaccaga	taacagagat	gagccatggt
171961	caacatgctc	tgcacaaatt	tttcccccc	aaacccatgag	caaataatag	caattgttgt
172021	tttaaaccat	taagttttag	tgtgatttgt	tactgatgac	aaaagagaca	aataagagatg
172081	aactaaatag	cacggggccac	aggggagtag	gcacgagacc	ccacagttac	tttcttgaaa
172141	ttcctagacc	ccctcctgct	tctgtaagga	actccagggtc	tgggttaatc	acaaactgat
172201	gactattcca	agaagcactg	tactccttag	ctaatacatct	gttagcttat	ttctgttaac
172261	taatggattt	tctatatgaa	catgctgaga	ccaccttggt	gtatctcctc	atggtgttcc
172321	ttaaaatctg	cttghtaacca	ccccaacctg	gagcacctcc	tggacttggt	atataagtgc
172381	ttcccagggt	gcaatcctca	aatttggccc	aaataaaactc	tttacctata	tgcatttgcc
172441	ttagtctctt	ttttttttat	ttccaccatg	cctggctaata	ttttaaattt	tttgtagagt
172501	caagatctca	ttatgttgct	caggctgggtc	tcaaactctg	gggatcaagt	gacccctcta
172561	cctcggcctc	ccaatgtgct	gggattacag	gtgtgagcca	ccgtgcctgg	cccttagttc
172621	tttctttcag	attgacatta	cacagcaata	ggggactgga	ataaaaattg	gcaccagaac
172681	atgaaatact	actggaatga	aaacctaaag	ccaattgcta	catgtttggg	accaagtaac
172741	acatagaaga	ctgaagagca	gtgagaaggc	tgttgggtgc	ttcacatggt	ttgatatttg
172801	tccctcccaa	atctcatggt	gaaatgtaata	cctcagcgtt	ggaggtgggg	cctgggtgga
172861	gggtgcatgg	ttgcagatcc	ctcatggcct	gggtgctgct	tgcgaatagt	aagttctcat
172921	gagatctggg	tgtgtgtggc	acctctccct	acctgctcct	cttcttgcca	tgtgacgtgc
172981	ctgctcgcac	ttcaccttcc	acagttagta	aaagctcact	gaggcctctc	cagaagccga
173041	gcagatgcca	gtaccaatgc	ttatactgcc	tgcagaacta	tgagccaaat	aaaccccttt
173101	tctctataaa	ttacccagtc	ttgggtattc	cttttagagca	atgcaagaaa	ggcctaacac
173161	tagcctaaaa	cagggaggaa	aaacttgctc	ttgctcttgt	gggctagaga	aaagggggcc
173221	tgagttacat	actggcagct	caattacact	gtcacttgta	gcaatgtgga	agatggtaca
173281	tgtgttcatt	aactggctaa	ggacattttc	atgcagagtg	ctgaaaatgc	caagtggcct
173341	gtaatagttg	ataatgtaca	gaaagagata	aactaaagag	ggaaatgttc	acctttcaag
173401	caaatttttag	aagaatatag	agggcccaag	actgtctgag	tcagtttagca	gcgtgttcta
173461	aaatcaaaa	aaaacttgga	ggcaaagaac	aaatctaaga	tgctgtaacc	gcccacgaa
173521	ttttccttgc	ccactgccta	ggcagactca	atttaagaca	ggggaattac	aataaagagt
173581	ttaatccaca	cacagtcac	tgtacgggag	actggagttg	tattattacg	caaatacgtc
173641	tccttaaaaga	cttgggatgg	ggtttttaag	gataattttg	tgggcagggg	gtcagaaaagt
173701	ggggactact	gattgggttag	gtcagagatg	aaatcacagg	gagttgaagc	tgtcctctgg
173761	tgtctgagtc	gttccctgggt	ggggggccaca	agaccagatg	aaccaattta	tcaatctggt
173821	tagggacagc	tgatccatcg	agtgcagggt	ctccaaaata	cctgttatct	ggaggagcaa
173881	tttggagggg	tttagaatct	tgccacctcc	agctgcatga	ctcctaaacc	acaatttcta
173941	atcttgtagc	taatttggtta	gtcctgcaaa	ggcagtttat	agttcccagg	ctaaaagggt
174001	gtttgttcag	ggaaagggtc	ggtaccatct	ttgtttcaaa	gttaaaactat	aggccggggc
174061	tggtggctca	cacctgtaat	cccagcacgt	tggaaaggccg	aggcaggcag	atcatttgag
174121	atcaggaggt	cgagaccagc	ctggccaaca	tggtgaaacc	ctgtctctac	taaaaaataca
174181	aaaattagtc	tggcgtgggtg	gcgtgcacct	gtagtccag	ctactcagga	ggctgacgca
174241	ggagaatcgt	ttgaaccag	gaggtggaga	ttgcagttag	ccaagatggg	gccactgcac
174301	tccagcctgg	gtgatagagt	gagactctgt	ctcaaaaaca	aacaaaaca	aataaacaac
174361	aacaacaaaa	aacaaagtta	aactgtaagt	taagttcctt	ccaaaattag	ttcagcctac
174421	acccaggaat	gaacaaggac	agcttggagg	ttaggaacaa	atcagtaagt	taggtcacat
174481	ctctttcatt	gtcataatcc	tctcagttat	aatttatgca	aaggtgggtt	cgatgccaca
174541	agtaaaacgt	ggcctctggt	caacatgagg	ccctttgtta	aaatcccaga	aagatgtaag
174601	gaattgcttc	tcaaaccctc	atggttagtt	agacaaacag	gcttctgaaa	gaacaagtgt
174661	gttctcacac	agcacctga	catgcacccc	agagagggag	cgtatcttaa	aaagattggg
174721	ggagatgggt	tttatctaac	acagtgaatc	ccagtaaaat	ccacagaaaa	ctcacaatgt
174781	ttttaagaga	actgaactaa	cacaagcacc	actagcttgg	actaaaatgg	acaaagactg
174841	ttcaaaaaca	agccactggg	ctcctaacca	tttactggca	ggaaataggc	tgaggaaact

FIGURE 3 (continued)

174901 atttggctgc aaatcagggt ttttgttggt gagatagggt ctctccggt gccagggctg
174961 gagcacaatg gcacaatcac aactcactat aacctctgcc tccctggagt agctaggact
175021 ataggcacat gccaccaagc ccgcctaatt tttgtat tttgtagagac ggggtttcac
175081 catattgccc aggctggtct tgaactccca gcctcaagtg atcctccgc gtcagcctcc
175141 caaaatggtg ggattacagg catgagccac cacgccaggc ccaatcacgc tttttcaaat
175201 agtaaaggaa ggccgaccca gaaggaggag ttaggaagta aatcagggtcc agctgtgtgt
175261 ggataaggct ccacagggat ggctctgtgg gtgcaggagac ccaagaacta aaaagacaag
175321 ttatctgctt cccacattcc ttgtacaatg tgaggaggaa aaagataact acaatagaga
175381 atccctttca aaaagtaagg atgagtgtat gaaatctgaa taaggtttgc agtgcagttt
175441 aaacagttca tagtgtccag tgcttctgat aggtcaagta aagtaaggac gatggacgtg
175501 gcaacatgga agtcacccat gacttcgaaa agcagttttc aatttaagtg tgtgaaagct
175561 t

174901 atttggctgc aaatcagggt ttttgttggt gagatagggt ctctccggt gccagggctg

FIGURE 4

1	mlaprgaavl	llhlvlqrwl	aagaqatpqv	fdllpsssqv	lnpgallpvl	tdpalndlyv
61	istfklqtks	satisfglyss	tdnskyfeft	vmgrlskail	rylkndgkvh	lvvfnnlqla
121	dgrhrhrillr	lsnlqrgags	lelyldciqv	dsvhnlpraf	agpsqkpeti	elrtfqrkbpq
181	dfleelklvv	rgslfqvasl	qdcflqqsep	laatgtgdfn	rqflgqmtql	nqllgevkdl
241	lrqqvketsf	lrintiaecqa	cgplkfqsp	pstv vapapp	apptrpprrc	dsnp cfrgvq
301	ctdsrdgfgc	gpcpegytgn	gitcidvdec	kyhpcypgvh	cinlspgfrc	dacpvgtfcp
361	mvqgvgisfa	ksnkqvctdi	decrngacvp	nsicvntlgs	yrccgpcckpgy	tgdqirgckv
421	erncrnpeln	pcsvnaqcie	erqgdvtcvc	gvwgagdyi	cgkdvdidsy	pdeelpcsar
481	nckkdncxyv	pnsqgedadr	dgigdaced	adgdgilneq	dncvlihnvd	qrnsdkdifg
541	dacdncslsvl	nndqkdtgdg	grgdacdddm	dgdgiknild	ncpkfpnrdr	rdkdgdgvvd
601	acdscpdvsn	pnqsdvdnd	vgdscdtnqd	sdgdghqdst	dncptvinsa	qldtdkdgig
661	decdddddnd	gipdlvppgp	dncrlvpnpa	qedsnsdgvv	dicesdfdq	qvidridvcp
721	enaevlttdf	rayqtvglp	egdaqidpnw	vvlnggmeiv	qtmnsdpkla	vgytafngvd
781	fegtfhvntq	tdddyagfif	gyqdsssfyv	vmwkqteqty	wqatpfra	epgiqlkavk
841	sktgpgehlr	nslwhtgdt	dqvrlwkds	rvgwkdkvs	yrwflqhrpq	vgyirvrbye
901	gselvadsgv	tidttmrgr	lgvfccsqen	iiwsnlkyrc	ndtipedfqc	fqtqnfrdrd
961	n					

[illegible]